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AMERICAN SOCIETY

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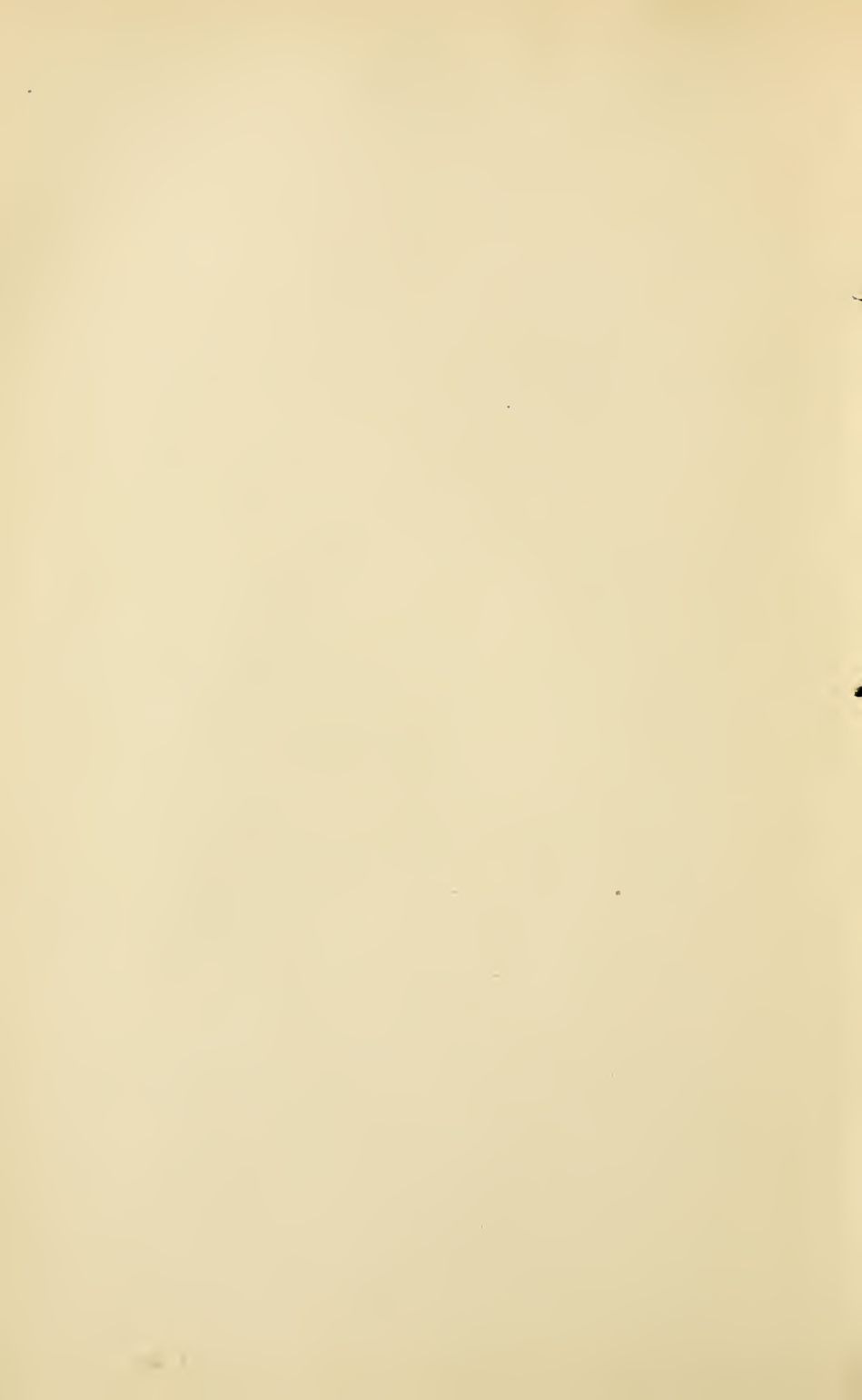
CIVIL ENGINEERS.

INSTITUTED NOVEMBER 5, 1852.

CONSTITUTION, BY-LAWS AND
LIST OF MEMBERS.

MAY, 1889.

HOUSE OF THE SOCIETY, 127 EAST TWENTY-THIRD STREET,
NEW YORK.



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American Society of Civil Engineers.

CONSTITUTION.

MAY, 1889.

ARTICLE I.—This Association shall be called the AMERICAN SOCIETY OF CIVIL ENGINEERS.

ARTICLE II.—Its objects shall be : The professional improvement of its members, the encouragement of social intercourse among men of practical science, the advancement of engineering in its several branches, and the establishment of a central point of reference and union for its members.

ARTICLE III.—Among the means to be employed for attaining these ends shall be periodical meetings for the reading of professional papers and the discussion of scientific subjects : the foundation of a library ; the collection of maps, drawings and models ; and the publication of such parts of the proceedings as may be deemed expedient.

ARTICLE IV.—Civil, Military, Geological, Mining and Mechanical Engineers, Architects, and other persons who by profession are interested in the advancement of science, shall be eligible for admission in their appropriate class.

ARTICLE V.—The officers of the Society shall consist of a President, two Vice-Presidents, a Secretary, Treasurer, Librarian, and five Directors, who shall be elected by written ballot, by a majority of votes, at the Annual Meeting of the Society. The term of office shall begin at the close of the Annual Meeting, and continue for one year, or until other officers are elected. Any vacancy occasioned by resignation or otherwise, may be filled at the next monthly meeting after notice of said vacancy.

ARTICLE VI.—The President, Vice-Presidents, Secretary, Treasurer and Directors shall constitute a Board of Direction, and shall be the Trustees of this Society, under the Act of Legislature of April 12th, 1848, Chapter 319, Laws of the State of New York.

ARTICLE VII.—The Board of Direction shall meet within one week after their election, and the first business in order shall be the appointment of a Standing Committee of three on Finance, and of a Standing Committee of three on Library.

ARTICLE VIII.—The President, and in his absence, the Vice-Presidents in rotation, shall preside at all the meetings of the Society ; and in case of their absence, a President *pro tempore* shall be appointed.

ARTICLE IX.—The Secretary shall keep an accurate record of all the transactions of the Society and the Board of Direction, and shall issue all notices.

ARTICLE X.—The Treasurer shall have charge of the funds of the Society, receive all assessments, and pay all bills and orders approved by the President, or the Chairman of the Finance or Library Committees. The duties of the Secretary and Treasurer may be united in the same person, if the Society think proper. Moneys belonging to the Society, paid to any of its officers, shall, with a statement showing for what the payment was made, be promptly transmitted to the Treasurer, who shall receipt therefor.

The Treasurer shall deposit the moneys and invest the funds of the Society, in its name, by and with the advice of the Board of Direction; he shall sign all checks.

No indebtedness shall be incurred for the Society, except under such rules as prescribed by the Board of Direction.

No bill shall be paid for the Society until it has been certified by the person authorized to contract it, and audited by the Committee on Finance.

ARTICLE XI.—It shall be the duty of the Librarian to take charge of the library of the Society, and to see that all books are marked with the name of the Society, numbered and recorded in a catalogue. In respect to the management of the library, he shall conform to such regulations as may be prescribed by the Society, or by the Board of Direction.

ARTICLE XII.—The duties of the Board of Direction shall be: To have a general care of the affairs of the Society; to apply the funds in the Treasury; to recommend the amount of assessments and appropriations for specific purposes, and to make a report on the affairs of the Society, embracing the report of the Treasurer, at the Annual Meeting.

ARTICLE XIII.—The Finance Committee shall have supervision of the accounts of the Society, shall examine all bills and demands, audit the accounts of the Treasurer, and certify to his annual report.

ARTICLE XIV.—The Library Committee shall have supervision of the rooms, printing and library of the Society, and shall apply to the purchase of books, or other articles of permanent value to the Society, such sums as may be appropriated.

ARTICLE XV.—At any regular meeting of the Society, seven Members shall constitute a quorum for the transaction of business. But the action of a less number at any monthly meeting, at which a quorum is not present, may be entered on the journal, provided such action does not affect the rights of the association, or any member thereof.

ARTICLE XVI.—The active members of the Society shall be divided into three classes, to be styled, respectively, Members, Associates, and Juniors; and each person, when duly elected and qualified, shall receive a certificate of membership, indicative of the peculiar class which he represents. Associates and Juniors shall possess all the rights and privileges of Members, excepting the right of voting.

ARTICLE XVII.—A member shall be a Civil, Military, Mining or Mechanical Engineer who has been in active practice as such for seven years, or has graduated as Civil Engineer and been in practice for five years, and has had responsible charge of work as Chief Resident, or Superintending Engineer, for at least one year: not as a skillful workman merely, but as one qualified to design as well as to direct public work.

An Associate shall be a manager of a railroad, canal or other public work; a geologist, chemist or mathematician; a proprietor or manager of a mine or metallurgical works; an architect or a manufacturer; or one who, from his scientific acquirements or practical experience, has attained eminence in his special pursuit, qualifying him to co-operate with Engineers in the advancement of professional knowledge; but shall not himself be practicing as an engineer.

A Junior shall be one who has had actual practice in some of the branches of civil, military, mining or mechanical engineering, for not less than two years; or, if a graduate of a scientific or collegiate institution, for not less than one year.

A person to be eligible to any class of membership must not be less than twenty-one years of age.

ARTICLE XVIII.—Nominations and proposals for admission to the Society shall be endorsed by at least five Members, who certify that they personally know the nominee or candidate, and that he is worthy of acceptance. Proposals for admission to the Society, of Engineers not resident in North America, and who may be so situated as not to be personally known to five Members of the Society, may be endorsed for ballot by five members of the Board of Direction, who shall, for such purpose, secure evidence sufficient in their opinion to show that the candidate is worthy of acceptance. The proposal for Member, Associate or Junior shall contain a statement, over the candidate's signature, of his age, residence, the nature and term of his professional service, and that he will conform to the requirements of membership, if elected. Fellows shall not be required to present themselves as candidates; those making the nomination shall state the ground therefor, and certify that the nominee will accept, if elected.

A proposal for transfer from one class to a higher shall be made by at least five Members, and shall state the age of the candidate, and the nature and term of his professional service since his admission to the Society. Such statement shall show a degree of qualification sufficient to render the proposed eligible to election in the class to which transfer is asked. Upon the approval of the Board of Direction, the candidate shall be balloted for, as provided in the election of Members; and when the transfer is made, he shall be required to pay as an additional entrance fee the amount of the difference between the entrance fees of the two classes.

ARTICLE XIX.—In elections for membership of either class, Members shall vote by letter, or by ballot in the usual way, and the result shall be announced at the next regular meeting held after twenty-five days have elapsed from the time of mailing the notification. Five or more ballots cast in the negative shall exclude. Members notified but not responding shall be classed as having

voted in the affirmative. In case of the non-election of any person balloted for, no notice shall be taken thereof in the minutes.

The Board of Direction, upon receipt of letters from not less than eight Members in good standing, requesting a reconsideration of the proposal of any rejected candidate, and stating the reasons for the request, may, if it considers the reasons to be sufficient, order another ballot to be taken; whereupon the Secretary shall mail to each member whose address is known, a notice of the same, with a letter-ballot in such form as shall be prescribed by the Board of Direction, requesting the recipient to vote thereby, or in person, on the day appointed by the Board to canvass the ballot. The ballot shall be an open one, and five or more negative votes shall exclude. The Board shall designate a regular meeting at which the ballot shall be canvassed, which meeting shall be not less than twenty-five days after the Secretary has issued the notice above mentioned.

ARTICLE XX.—On being thus elected, the candidate must subscribe to the Constitution and By-Laws (in the terms set forth in Form A in the Appendix), and pay to the Treasurer of the Society such sum as may be determined upon, under the authority of Article XXII of the Constitution, as the regular entrance fee and yearly assessment, before he can be entitled to receive a certificate of membership. If this be not done within six months from the notification of the election, said election shall be considered void.

ARTICLE XXI.—Persons thus elected and duly qualified, who reside within fifty miles of the Post-office in the City of New York, shall be deemed Resident; and those who reside beyond this limit shall be deemed Non-Resident. The membership of any person shall begin on the day of his election.

ARTICLE XXII.—The amount of entrance fee to be paid, as well as the annual dues or assessments for the support of the Society, shall be determined from time to time at some regular meeting of the Society, provided that notice of intended action thereon shall have been given at a previous regular meeting. No alteration in the amount of said fees or assessments shall apply to the fiscal year during which it is made, but shall take effect on and after the first day in January next succeeding the day of the date of said alteration. Members who become Residents or Non-Residents by removal into or beyond the limits prescribed in Article XXI, shall be subject to assessment in the class in which they were on the day of the Annual Meeting, as may appear upon the records of the Society or by written notice to the Secretary.

Any member of the Society, not in arrears for dues, may compound for the payment of all future annual dues, except as hereinafter provided, by the payment of Two Hundred and Fifty Dollars.

Provided, That all Resident Members, or those who may hereafter become such, shall be and remain liable to the annual payment of the difference between the annual dues of Resident and Non-Resident Members, as the same now is, or may be established from time to time; but any Member may at any time compound for the future payment of all annual dues of every nature and kind, by the payment of Seventy-five Dollars in addition to the Two Hundred and Fifty Dollars hereinbefore provided for.

Provided, however, that each person duly elected a Member shall pay the entrance fee and also the annual dues for the current year of his election.

Provided, also, that any Member desiring to compound for future annual dues shall have paid the annual dues for the current year before the compounding sum may be available.

Members compounding shall sign an agreement that they will be governed by the Constitution and By-Laws of the Society as they are now formed, or as they may be hereafter altered, amended or enlarged; and that in case of their ceasing to be Members from any cause whatever, the amount theretofore paid by them for compounding, and for entrance fees and annual dues, shall be the property of the Society.

All moneys thus paid in commutation of annual dues, shall be invested as a permanent fund, the interest thereof only being subject to appropriation for current expenses.

ARTICLE XXIII.—Honorary Members, not exceeding twenty in number in all, may be appointed by a unanimous vote of the Board of Direction and such Past-Presidents of the Society as shall be at the time Members of the Society and resident in the United States. A person to be eligible as an Honorary Member shall be a gentleman of acknowledged eminence in some branch of engineering. Honorary Members shall be subject to no fees or assessments, and shall not be entitled to vote.

ARTICLE XXIV.—There shall be a fund called the Fellowship Fund, ten thousand dollars of which shall be devoted exclusively to the publication of the papers read before the Society. Any person, whether Members or otherwise, if acceptable to the Society, may subscribe thereto. The subscribers to this fund shall be called "Fellows of the Society." A Fellow shall be an acceptable subscriber, who has signified to his proposers a desire to be nominated, and an intention, if elected, to become a member of this class.

Persons who are not Members, and who become Fellows, shall be entitled to all the privileges of the Society, except the right to vote. Members who become Fellows shall, in addition to all the rights they possess as Members, be entitled to receive duplicate copies of all the publications of the Society. Fellows shall be elected in the same manner as Honorary Members.

ARTICLE XXV.—Whenever any person is elected, the Secretary shall immediately inform him of the same by letter (Form B in the Appendix), and the election of Honorary Members shall be likewise communicated to them by a letter suited to each particular case; but no person shall be considered an Honorary Member unless he signify within six months his acceptance of membership.

ARTICLE XXVI.—Every person admitted to the Society shall be considered as belonging thereto and liable to the payment of all assessments, until he shall have signified to the Secretary his desire to withdraw; when, if his dues have been fully paid up, his name shall be erased from the list of Members.

Members in arrears for more than one year's annual dues shall not be allowed to vote until such dues are paid.

ARTICLE XXVII.—Any person admitted to the Society who shall refuse to pay any assessment or other dues to the Society, or who shall neglect the same for the term of six months after due notice is issued (in the Form C in the Appendix), shall cease to be a Member.

ARTICLE XXVIII.—Upon the written request of ten or more Members, that for cause therein set forth, a person belonging to the Society be expelled, the Board of Direction shall consider the matter, and if there is sufficient reason, shall advise the accused that his resignation will be accepted. He may, upon demand, receive a copy of the charges against him, and present a written defense. Two months after such advice was given, the Board of Direction shall finally consider the case, and if resignation has not been tendered, or a satisfactory defense made, will then notify the Member that he will be expelled in one month, unless he elects to appeal from this decision. Appeals will be submitted to the Society by letter-ballot. In case no appeal be made, the Board of Direction will expel the Member and notify him and the Society of the same, or of the action of the Society on appeal, and the above shall in any event be the only public announcement of the matter.

ARTICLE XXIX.—The permanent place for the transaction of the business of this Society shall be in the City of New York.

ARTICLE XXX.—The Annual Meeting for the election of officers and hearing the Annual Reports, shall be held on the third Wednesday in January. The Board of Direction shall lay before the meeting a report of the state of the Society, together with a statement by the Treasurer, verified by the Committee on Finance, of the funds of the Society, and the receipts and payments during the year ending on the 31st December preceding.

ARTICLE XXXI.—The annual contributions shall become due for the ensuing year on the first day of January, and shall be payable in advance. It shall be the duty of the Secretary to notify each Member of the amount due for the ensuing year at the time of giving notice of the Annual Meeting.

ARTICLE XXXII.—The Board of Direction may, for sufficient cause, excuse from payment of annual dues any Member distinguished in his professional career, and who, from ill-health, advanced age, or other good reason assigned, is unable to pay such dues; and the Board may remit the whole or part of assessments in arrears, or accept, in lieu thereof, desirable additions to the Library and Museum.

ARTICLE XXXIII.—Proposed amendments to this constitution must be submitted in writing, signed by not less than five Members, on or before the first Wednesday in November, and then sent by letter to the several Members of the Society, at least twenty-five days previous to the Annual Meeting. Such amendments shall be in order for discussion at such Annual Meeting, and may be amended in any manner pertinent to the original amendments by a majority vote of the Annual Meeting, and if so amended, shall be voted upon by letter-ballot in form as amended by the Annual Meeting; if not so amended, they shall be voted upon by letter-ballot as submitted; the vote to be counted at the first regular meeting in March.

An affirmative vote of two-thirds of all ballots cast shall be necessary to the adoption of any amendment.

BY-L A W S.

SECTION 1.—The regular meetings of the Society shall be held on the first Wednesday in each month. There shall be meetings of the Society held on the third Wednesday in each month, for professional improvement and the encouragement of social intercourse among men of practical science, at which papers shall be read and subjects discussed relating to the theory and practice of engineering, and no other business transacted. The Board of Direction may suspend meetings of the Society in the months of July and August.

A Convention of the Society for professional discussion and social intercourse shall be held annually at such place as the Society may determine, and be presided over by a Chairman selected from among Members not officers of the Society. During the Convention, a regular meeting of the Society, to be presided over by the officers of the Society, may be held for the transaction of business.

On the evening of the first day of the Convention, there shall be held a meeting to which the public may be invited, and at which the President of the Society shall deliver an address giving a summary of engineering progress during the preceding year.

SECTION 2.—At the regular meetings of the Society, the following order shall be observed in the transaction of business, unless set aside for the time being, by a vote of the Members present :

- 1st. The record of last meeting to be read, approved and signed by the Chairman and Secretary.
- 2d. Candidates for membership to be balloted for.
- 3d. Communications received since the last regular meeting to be announced, and read if required.
- 4th. Communications from Members present to be read.
- 5th. Communications from the Board of Direction to be brought forward.
- 6th. Reports of Committees to be called for.
- 7th. Unfinished business to be taken up.
- 8th. New business to be proposed.
- 9th. Questions for debate to be discussed.

The same order shall be observed, as far as practicable, at the meetings of the Board of Direction.

SECTION 3.—All decisions of the Chair, on points of order, shall be conclusive, unless reversed on appeal to the meeting.

SECTION 4.—Every motion shall be first stated by the President, before debate or taking the question, and every motion shall be reduced to writing, if the President or any Member desires it.

SECTION 5.—When a question is under debate, no motion shall be in order, unless for the previous question ; to postpone indefinitely ; to postpone to a day certain ; to lay on the table ; to commit ; to amend ; or to adopt.

SECTION 6.—A motion to adjourn shall always be in order, and shall be decided without debate.

SECTION 7.—If required by one-fifth of the whole number of Members present, the ayes and nays upon any question shall be called, and entered upon the journal.

SECTION 8.—No motion for reconsideration shall be in order, unless one of the majority shall move such reconsideration. A motion for reconsideration being put and lost, shall not be renewed, nor shall any subject or vote be a second time reconsidered without unanimous consent.

SECTION 9.—The Board of Direction may call meetings of the Society when they deem it expedient, and shall be bound to do so at the written request of seven Members, stating the purpose of such meeting. Ten days' notice shall be given to Members of any special meeting ; the purpose thereof shall be stated in the notice, and no other business shall be taken up at that meeting.

SECTION 10.—The rooms of the Society shall be open from 9 A.M. to 4 P.M., every business day, unless otherwise determined by the Board of Direction.

SECTION 11.—Every Member shall have the privilege of introducing visitors to the rooms while the Society is not in session, by writing their names and his own in a book provided for that purpose.

SECTION 12.—A record of all donations to the Society, whether in money, books, maps, models or other articles of value, with the names of the donors, shall be entered by the Secretary in a book provided for that purpose, to be kept at the rooms of the Society.

SECTION 13.—The books, maps and other property of the Society shall only be removed from the rooms under such rules and regulations as shall be prescribed by the Committee on Library, and approved by the Board of Direction.

SECTION 14.—A book shall be kept by the Librarian, in which Members may enter the title of any book, map or plan which they may wish to have added to the Library.

SECTION 15.—The records of the Society shall at all times be open to Members, and such books of accounts shall be kept in its rooms as the Board of Direction may designate.

SECTION 16.—When a paper is presented to the Society, the Secretary shall at once examine it, and report thereon to the Committee on Library, with reference to this standard : Papers containing old matter, readily found elsewhere, those specially meant to advocate personal interests, those carelessly prepared or controverting established facts, and those purely speculative or foreign to the purposes of

the Society, should be rejected. The Committee shall then determine whether such paper may go before the Society. They can return it to the writer for correction and emendation, and call to their aid one or more Members of special experience relating to the subject treated, either to advise on the paper or to discuss it. Such papers as in the judgment of the Committee should go before the Society shall promptly, upon their acceptance, be printed; others shall be recorded in books provided for the purpose. When, however, the Library Committee does not feel authorized to publish a paper, they may provide an abstract thereof, which, when approved by the author, may be published instead of the original paper.

SECTION 17.—The annual report of the Treasurer shall be certified to by at least two members of the Committee on Finance.

SECTION 18.—The Board of Direction shall determine the order of its stated and special meetings; provide for an Executive Committee to act in the absence of a quorum, or during the intervals between the meetings; prescribe regulations for balloting, and generally conduct the business affairs of the Society. The record of the proceedings of the Board of Direction, made since the last regular meeting of the Society, shall be read at each regular meeting.

SECTION 19.—A nomination or proposal shall be presented at the next regular meeting of the Board of Direction following its receipt; the Board of Direction shall thereupon send to all Members of the Society a notice that such person is a candidate for election. Not less than thirty days thereafter the Board shall consider the application, and if approved and the applicant (if for admission as Member, Associate or Junior) classed with his consent, a day shall be fixed for the ballot to be canvassed, which shall be at a regular meeting of the Society, not less than twenty-five days thereafter.

SECTION 20.—When such day is fixed, the Secretary shall conspicuously post in the rooms of the Society the name and class of the nominee or applicant, his residence, occupation, and the names of his proposers; he shall mail to each Member whose address is known a notice of the same, with a letter-ballot in such form as shall be prescribed by the Board of Direction, and request the recipient to vote thereby or in person in the usual manner on the day fixed, when an open canvass of the votes cast shall be made, and the result announced.

SECTION 21.—The proposers of any rejected candidate may, within three months after such rejection, lay before the Board of Direction written evidence that an error was then made, and ask for a reconsideration of the proposal, which shall be granted on sufficient grounds, and if a ballot has been taken, another shall be ordered.

SECTION 22.—Persons who shall be elected Members of this Society after six months of any fiscal year shall have expired, shall pay only one half of the amount of dues for that fiscal year otherwise required.

SECTION 23.—Special committees to report upon engineering subjects shall be authorized only by a majority of the votes cast by the Society, and in the following manner: Any resolution proposing such a committee shall be referred to the

Board of Direction, which shall examine the same and report to the Society a concise statement of the argument for and against the appointment of such committee, which statement shall be printed and issued to the Society with a letter-ballot ; or, if the Board fails to report within one month, the letter-ballot shall be issued without comment.

SECTION 24.—1st. Votes for officers of the Society at the Annual Meeting in January may be sent by mail, inclosed in two sealed envelopes, the outer one of which shall be indorsed by the voter's signature, and all such votes shall be counted on the first ballot for officers.

2nd. If it should appear that for any office a majority of the votes cast was not for one person, the meeting shall proceed to vote by ballot in the usual way for such officer, the choice of candidates being limited to the two persons not elected for whom the greatest number of votes had been previously cast for such office. When two or more persons have the highest and an equal number of votes at any election for officers, the Society shall elect the officer from among those having the highest and equal number of votes.

3d. At the Annual Convention a Nominating Committee of five Members, not officers of the Society, shall be appointed by the Convention. This committee shall present to the Board of Direction, on or before the first day of November ensuing, the names of the persons selected by them as candidates for officers. Of these, at least one Vice-President, three Directors, the Secretary and the Treasurer shall be Resident Members.

4th. The Board of Direction shall thereupon cause such list to be posted in the rooms of the Society, and shall issue, at least twenty days before the Annual Meeting, a letter-ballot containing the names thus proposed.

5th. Any five Members, not officers of the Society, may present to the Board of Direction, on or before December 1st, a list of names proposed by them for officers, which lists or list shall also be issued for ballot.

6th. No member of any Nominating Committee shall be presented by such committee as a candidate for office.

SECTION 25.—The President of the Society shall have the general supervision of of the business and correspondence of the Society ; he shall be an honorary member of all committees, but shall have no vote on such committees.

In all cases where the By-Laws or resolutions of the Society or of the Board of Direction require specific duties to be performed by the President, the senior resident Vice-President present shall perform such duties in absence of the President, on receiving notice from the President to perform such duties.

SECTION 26.—Additions and amendments to these By-Laws shall be proposed in writing and seconded at a regular meeting, and then submitted to vote of the Members by letter-ballot. The vote shall be canvassed at the second regular meeting thereafter, and two-thirds of all the votes cast shall be necessary for the adoption of any such addition or amendment.

APPENDIX.

[FORM A.]

I, the undersigned, having been duly elected a.....
of the American Society of Civil Engineers, do hereby promise that I will be
governed by the Constitution and By-Laws of said Society, as they are now
formed, or as they may be hereafter altered, amended or enlarged; and that I will
aid in advancing the objects of the said Society, and will attend the usual meetings
thereof as often as I conveniently can; provided that whenever I shall signify in
writing to the Secretary for the time being that I am desirous of withdrawing my
name therefrom, I shall (after the payment of any arrears which may be due by me
at that period) be free from this obligation.

Witness my hand this
day of....., 18....

[FORM B.]

AMERICAN SOCIETY OF CIVIL ENGINEERS,
NEW YORK,

SIR :

I have the pleasure to inform you that on the.....
day of..... you were elected a..... of the
American Society of Civil Engineers.

To confirm this election it is necessary for you, under Article XX of the Con-
stitution, to subscribe the enclosed obligation, and to pay to the Treasurer of the
Society the prescribed fee, as stated in the enclosed bill.

Respectfully,
..... Secretary.

[FORM C.]

AMERICAN SOCIETY OF CIVIL ENGINEERS,
NEW YORK,

SIR :

The Board of Direction of the American Society of Civil Engineers has directed
me to inform you that your annual contribution thereto has been in arrears since
....., the amount being..... and that, by the
regulations of the Society, unless the same is paid within six months, you will
cease to be a member. I have, therefore, to request that you will order the pay-
ment thereof.

Respectfully,
..... Secretary.

FORM OF APPLICATION.

The proposal for MEMBER, ASSOCIATE, or JUNIOR, shall contain a statement over the *candidate's signature*, of his *age, residence*, the nature and term of his *professional service*, and that he will conform to the requirements of membership if elected.

STATEMENT.

I [*Full Christian names and surname of candidate*] residing at [*City or town, county, State*], being desirous of admission into the American Society of Civil Engineers as [*State class of membership*], submit the following as my professional record :

I was born at [*Place of birth*] on [*Date of birth*], 18 , [*To embody for all classes of members, except Fellows, a concise narrative, with dates, of the candidate's professional career, specifying the positions he has held, the nature and extent of the works in or upon which he has been engaged, giving an idea of their magnitude and importance. All proper names, names of railroads, etc., must be written without abbreviation.*]

FOR MEMBER, ASSOCIATE OR JUNIOR.

I will conform to the requirements of membership, if elected as [*State class of membership*].

[*The applicant will sign here his regular signature, and give his present post-office address.*]

Dated 18

On the grounds stated, and because we believe him from personal knowledge to be in all respects a proper person to be admitted into the American Society of Civil Engineers, we hereby recommend [*Full name of candidate*] of [*Residence of candidate*], for election as [*Class of membership*].

[*To be signed by at least five Members of the Society, personally acquainted with the applicant.*]

[Nominations for Honorary Members and for Fellows may be made upon the preceding form of application, but neither Honorary Members nor Fellows are required to present themselves as candidates ; those making the nomination are to state the ground therefor. In using the form for this purpose the word "I" will be omitted in the statement, the word "worthy" substituted for "desirous," and the word "we" inserted before the word "submit." The nominee need not sign, but those making a nomination for a Fellow must certify that the nominee will accept if elected.]

[Blanks are furnished on application to the Secretary.]

FEES, DUES, CERTIFICATE, BADGE.

ORDINARY FEES AND DUES.	RESIDENT.			NON-RESIDENT.		
	Members.	Associates	Juniors.	Members.	Associates	Juniors.
Entrance Fee.....	\$30.00	\$20.00	\$20.00	\$30.00	\$20.00	\$20.00
Yearly Assessment.....	25.00	15.00	15.00	15.00	10.00	10.00
Payable upon Election....	\$55.00	\$35.00	\$35.00	\$45.00	\$30.00	\$30.00

Annual Contributions are due on the 1st day of January, and are payable in advance.

Persons elected Members, after six months of any fiscal year have expired, pay only one-half of the amount of dues for that fiscal year, otherwise required.

Fellowship fee \$150 in one payment for life.

PROVISIONS FOR COMPOUNDING DUES.—Any Member of the Society, not in arrears for dues, may compound for the payment of all future annual dues, except as hereinafter provided, by the payment of two hundred and fifty dollars.

Provided, that all Resident Members, or those who may hereafter become such, shall be and remain liable to the annual payment of the difference between the annual dues of Resident and Non-Resident Members, as the same now is, or may be established from time to time; but any Member may at any time compound for the future payment of all annual dues of every nature and kind, by the payment of seventy-five dollars in addition to the two-hundred and fifty dollars hereinbefore provided for.

Provided, however, that each person duly elected a Member shall pay the entrance fee, and also the annual dues for the current year of his election.

Provided, also, that any Member desiring to compound for future annual dues, shall have paid the annual dues for the current year before the compounding sum may be available.

Members compounding shall sign an agreement that they will be governed by the Constitution and By-Laws of the Society as they are now formed, or as they may be hereafter altered, amended or enlarged; and that in case of their ceasing to be Members from any cause whatever, the amount theretofore paid by them for compounding, and for entrance fees and annual dues, shall be the property of the Society.

CERTIFICATES OF MEMBERSHIP.—The prices, to cover cost of Certificates, are as follows:

Parchment	\$2 25
Parchment Paper.....	1 25
Plate Paper.....	1 25

BADGE.—This is of gold and enameled, with the Member's name and a number engraved on the back, and is mounted either as an ordinary pin, a scarf pin, or a watch charm, as directed. The price is five dollars, which includes engraving the name and number. Badges can be secured only by means of an order signed by the Secretary.

REMITTANCES.—All remittances should be made payable to the order of the American Society of Civil Engineers. They should be in drafts on New York, or in Postal Money Orders payable at the New York Post Office (not at a branch office).

THE NORMAN MEDAL.

CODE OF RULES FOR ITS AWARD.

I.—Competition for the Norman Medal of the American Society of Civil Engineers shall be restricted to Members of the Society.

II.—There shall be one gold medal, and only one, struck for each and every fiscal year of the Society, and awarded as hereinafter provided. The dies therefor shall be with the Superintendent of the United States Mint at Philadelphia, in trust exclusively for the above purpose. Such medal shall be of a cost equal to the annual interest received upon \$1,000 of the Consolidated Stock of the City of New York, Certificate No. 179, of the additional new Croton Aqueduct Stock of the City of New York, authorized by an Act of the Legislature of the State of New York, Chap. 230, passed April 15th, 1870, dated November 17th, 1873, now held in trust by the Treasurer of this Society, and so held solely for this purpose, and shall be executed upon his order.

III.—All original papers presented to the Society by Members of any class, during the year for which the medal is awarded, shall be open to the award, provided that such papers shall not have been previously contributed in whole or in part to any other association, nor have appeared in print prior to their publication by the Society, nor have been presented to the Society in any previous year.

IV.—The Board of Censors to award the medal shall consist of three Members of the Society, to be designated by the Board of Direction. The Secretary of the Society shall act as Secretary to the Board of Censors.

V.—The medal shall be awarded to such paper as the said Board shall judge to be worthy of special commendation for its merits as a contribution to engineering science, not merely relatively as compared with others presented during the same year, but as exhibiting the science, talent or industry displayed in the consideration of the subject treated of, and for the good which may be expected to result from the discussion and the inquiry.

VI.—In case no paper presented during the year shall be deemed of sufficient value to receive an award, the amount of the interest of the fund for that year shall be expended by the Board of Direction in the purchase of books, to be offered as a premium for the second best paper in the next year in which more than one paper of sufficient value may be presented.

VII.—The medal year shall terminate on the first day of August, and the award shall be announced at the annual meeting.

VIII.—The Treasurer of this Society shall cause the medal to be prepared and delivered to, or deposited to the order of, the successful competitor, within two months after the annual meeting at which the same shall have been awarded.

THE ROWLAND PRIZE.

CODE OF RULES FOR ITS AWARD.

Not more than one prize shall be awarded each year for papers prepared during the year. The year shall terminate on the first day of August, and the award shall be announced at the annual meeting in January.

The prize shall consist of fifty dollars in cash.

The award shall be made by a committee consisting of the Secretary and two Members of the Society, to be appointed by the Board of Direction.

The prize shall be awarded to such paper as the committee deem most worthy of such recognition, the preference being given to papers describing in detail accomplished works of construction, their cost and manner of execution, and the errors in design and execution.

ABBREVIATIONS FOR DESIGNATING MEMBERSHIP.

The Board of Direction has declared the following as the authorized abbreviations to be used by Members of the Society having occasion to designate themselves as such :

FOR HONORARY MEMBERS,	-	-	-	-	-	Hon. M. Am. Soc. C. E.
FOR MEMBERS,	-	-	-	-	-	M. Am. Soc. C. E.
FOR ASSOCIATES,	-	-	-	-	-	Assoc. Am. Soc. C. E.
FOR JUNIORS,	-	-	-	-	-	Jun. Am. Soc. C. E.
FOR FELLOWS,	-	-	-	-	-	F. Am. Soc. C. E.

The Board of Direction requests the use of the above forms in all cases.

PROVISIONS OF THE LAWS OF THE STATE OF NEW YORK
APPLICABLE TO THE AMERICAN SOCIETY OF
CIVIL ENGINEERS.

ORIGINALLY INCORPORATED 1852.

INCORPORATED UNDER THESE LAWS, 1877.

REVISED STATUTES OF THE STATE OF NEW YORK. VIIIth EDITION, FEBRUARY 1ST,
1880, PART I. CHAPTER XVIII. TITLE 4C. ARTICLE 3D. L. 1884, CHAP. 319.

AN ACT FOR THE INCORPORATION OF BENEVOLENT, CHARITABLE,
SCIENTIFIC AND MISSIONARY SOCIETIES.

*Corporators; Objects; Certificate, contents of; Change of Title of Managing Board,
or increase or decrease of number of Members; consent of Justice of Supreme Court.
Section 1.*

Any five or more persons of full age, citizens of the United States, a majority of whom shall be citizens of, and resident within this State, who shall desire to associate themselves for benevolent, charitable, literary, historical, scientific, missionary or mission or Sunday-school purposes, or for the purpose of mutual improvement in religious knowledge, or for the furtherance of religious opinion, or for the purpose of promoting and cultivating the fine arts by establishing a gallery or collections of pictures and statuary, including other objects of the fine arts, and for the purpose of maintaining a library, or as a society for the prevention of crime, or for any two or more of such objects, may make, sign and acknowledge before any officer authorized to take the acknowledgment of deeds in the State, and file in the office of the Secretary of State, and also in the office of the Clerk of the County in which the business of such society is to be conducted, a certificate in writing, in which shall be stated the name or title by which such society shall be known in law, the particular business and objects of such society, the number of trustees, directors or managers to manage the same, and the names of the trustees, directors or managers of such society for the first year of its existence. And any corporation organized, or which may hereafter be organized under the provisions of this Act, may from time to time change the title of the members of their managing board, or increase or decrease the number thereof to not less than five, on the consent in writing of not less than two-thirds of their number. A certificate of such change, executed as herein above provided for the original certificate, shall be filed with the original certificate; but neither such original certificate nor such amendment thereof shall be filed unless by the written consent and approbation of one of the Justices of the Supreme Court of the district in which the place of business or principal office of such company or association shall be located, to be endorsed on such certificate.

[*Thus amended by L. 1883, ch. 446, superseding L. 1881, ch. 526.*]

Corporation then formed; powers; property and income limited. § 2.—Upon filing a certificate as aforesaid, the persons who shall have signed and acknowledged such certificate, and their associates and successors, shall thereupon by virtue of this Act, be a body politic and corporate by the name stated in such certificate, and by that name they and their successors shall and may have succession, and

shall be persons in law capable of suing and being sued, and they and their successors may have and use a common seal, and the same may alter and change at pleasure; and they and their successors, by their corporate name shall, in law, be capable of taking, receiving, purchasing and holding real and personal estate for the purposes of their incorporation, and for no other purpose, to an amount not exceeding in the aggregate the sum of two million dollars in value; but the clear annual income of such real and personal estate shall not exceed the sum of two hundred thousand dollars; to make by-laws for the management of its affairs, not inconsistent with the constitution and laws of this State or of the United States; to elect and appoint the officers and agents of such society, for the management of its business, and to allow them a suitable compensation.

[Thus amended by L. 1885, ch. 88, superseding L. 1872, ch. 649.]

Election of Trustees, etc. § 3.—The society so incorporated may annually elect, from its members, its trustees, directors or managers, at such time and place, and in such manner, as may be specified in its by-laws, who shall have the control and management of the affairs and funds of said society, a majority of whom shall be a quorum for the transaction of business, if not otherwise provided in the by-laws, except that no such purchase, lease or sale of real estate shall be made unless two-thirds of the whole number are present at the meeting at which it is ordered; and whenever any vacancy shall happen among such trustees, directors or managers, by death, resignation, or neglect to serve, such vacancy shall be filled in such manner as shall be provided by the by-laws of such society.

[Thus amended by L. 1853, ch. 487.]

Provision in case no election is made. § 4.—In case it shall at any time happen that an election of trustees, directors or managers shall not be made on the day designated by the by-laws, said society for that cause shall not be dissolved, but it shall and may be lawful on any other day to hold an election for trustees, directors or managers, in such manner as may be directed by the by-laws of such society.

Restriction. § 5.—The provisions of this Act shall not extend or apply to any association or individuals who shall, in the certificate filed with the Secretary of State, or with the County Clerk, use or specify a name or style the same as that of any previously existing incorporated society in this State.

[Thus amended by L. 1861, ch. 239.]

Real or personal property may be held, etc.: proviso. § 6.—Any corporation formed under this Act shall be capable of taking, holding or receiving any property, real or personal, by virtue of any devise or bequest contained in any last will or testament of any person whatsoever, the clear annual income of which devise or bequest shall not exceed the sum of ten thousand dollars; provided, no person leaving a wife or child or parent, shall devise or bequeath to such institution or corporation more than one-fourth of his or her estate, after the payment of his or her debts, and such devise or bequest shall be valid to the extent of such one-fourth; and no such devise or bequest shall be valid in any will which shall not have been made and executed at least two months before the death of the testator.

Liability of Trustees. § 7.—The trustees of any company or corporation organized under the provisions of this Act, present at any meeting authorizing the contracting of any debt, and acquiescing in the passage of any resolution or order authorizing the same, shall be jointly and severally liable for any such debt, provided a suit for the collection of the same shall be brought within one year after the debt shall become due and payable.

[*Thus amended by L. 1853, ch. 487.*]

Institutions subject to Visitation by Justices of Supreme Court. § 8.—All institutions formed under this Act, together with their books and vouchers, shall be subject to the visitation and inspection of the Justices of the Supreme Court, or by any person or persons who shall be appointed by the Supreme Court for that purpose; and it shall be the duty of the trustees, or a majority of them, in the month of December in each year, to make and file in the County Clerk's office where the original certificate is filed, a certificate under their hands, stating the names of the trustees and officers of such association or corporation, with an inventory of the property, effects and liabilities thereof, with an affidavit of the truth of such certificate and inventory, and also an affidavit that such association or corporation has not been engaged directly or indirectly in any other business than such as is set forth in the original certificate on file.

General powers. § 9.—Every corporation formed under this act shall possess the powers and be subject to the provisions and restrictions contained in the third title of the eighteenth chapter of the first part of the Revised Statutes.

[*Thus amended by L. 1849, ch. 273.*]

Right to repeal. § 10.—The Legislature may at any time amend, annul or repeal any incorporation formed or created under this Act.

Increase of Trustees. § 11.—The number of trustees, directors or managers in any corporation which may have been heretofore, or which may hereafter be organized under the said Act, may be increased as follows: The existing trustees of any such corporation, or a majority thereof, shall make and sign a certificate declaring how many trustees, directors or managers the corporation shall have in the future management of its business, and stating the names of the new or additional trustees, directors or managers, which certificate shall be acknowledged or be proved by a subscribing witness, and shall be filed in the office of the Secretary of State, and also in the office of the Clerk of the County where the original certificate of incorporation was filed; and from and after the filing of such certificate, the trustees, directors or managers of such corporation shall be deemed increased to the number therein stated, and the persons so named shall be trustees until a new election of trustees, directors or managers shall be had according to said Act and the by-laws or regulations of said corporation.

[*Added by L. 1875, ch. 452.*]

Extending corporate existence. § 13.—The term of existence of any corporation which may have heretofore been, or which may hereafter be organized, under this act, may be extended in the following manner: The trustees of such corporation, or a majority of them, shall make and sign a certificate declaring the term,

not exceeding fifty years, for which the said corporation is to be continued, which certificate shall be duly acknowledged, and be filed in the office of the Secretary of State, and also a copy thereof in the office of the Clerk of the County where the original certificate of incorporation was filed; and from and after the filing of such certificate and copy, the said corporation shall be deemed continued for the term of years therein specified.

[*Added by L. 1876, ch. 190.*]

Societies may re-incorporate themselves. § 2.—The trustees, directors, or stockholders of any existing benevolent, charitable, scientific, or missionary corporation may, by conforming to the requirements of the first section of the Act hereby amended, re-incorporate themselves or continue their existing corporate powers for the period limited by the Act hereby amended, and all the property and effects of such existing corporation shall vest in and belong to the corporation so re-incorporated or continued.

By application to the Supreme Court. SECTION 1.—It shall be lawful for the Supreme Court of this State, upon the application of any benevolent, charitable scientific, or missionary society incorporated by law, in case it shall deem it proper, to make an order for the mortgaging of any real estate belonging to said corporation, and to direct the application of the moneys arising therefrom, by the said corporation, to such uses as the same corporation, with the consent and approbation of the said Court, shall conceive to be most for the interest of the society to which the real estate so mortgaged belongs.

By application to the Supreme Court. SECTION 1.—It shall be lawful for the Supreme Court of this State, upon the application of three-fourths of the trustees of any benevolent, charitable, scientific, missionary society or orphan asylum incorporated by law, in case it shall deem it proper, to make an order for the leasing or sale and conveyance of any real estate belonging to such corporation, and to direct the application of the moneys arising therefrom by the said corporation to such uses as to the said Court shall seem to be most for the interest of the corporation to which the real estate so leased or conveyed belongs.

Act extended to educational institutions and parsonages. SECTION 1.—The "Act for the Incorporation of Benevolent, Charitable, Scientific, and Missionary Purposes," passed April twelfth, eighteen hundred and forty-eight, shall be deemed to authorize the incorporation of any society for the purpose of establishing and maintaining any educational institution or chapel, or place of Christian worship, or any parsonage, rectory, or official residence of any bishop, pastor or minister of any Christian church or association.

Classification of trustees. § 2.—It shall be lawful for the trustees or managers of any society incorporated under the Act aforesaid, or under this Act, to provide in their by-laws for the classification and the mode of perpetuating the board of trustees or managers, and filling vacancies therein, as the same may occur.

Existing societies. § 5.—This Act shall apply as well to societies heretofore organized under the aforesaid Act, as to those which shall be hereafter organized.

PROVISIONS OF TITLE III. APPLICABLE TO THIS SOCIETY.

SECTION I. Every corporation, as such, has power,

1. To have succession by its corporate name, for the period limited in its charter; and when no period is limited, perpetually:

2. To sue and be sued, complain and defend, in any court of law or equity:

3. To make and use a common seal, and alter the same at pleasure:

4. To hold, purchase and convey such real and personal estate as the purposes of the corporation shall require, not exceeding the amount limited in its charter:

5. To appoint such subordinate officers and agents as the business of the corporation shall require, and to allow them a suitable compensation:

6. To make by-laws, not inconsistent with any existing law, for the management of its property, the regulation of its affairs, and for the transfer of its stock.

§ 2. The powers enumerated in the preceding section shall vest in every corporation that shall hereafter be created, although they may not be specified in its charter or in the act under which it shall be incorporated.

§ 3. In addition to the powers enumerated in the first section of this title, and to those expressly given in its charter, or in the act under which it is or shall be incorporated, no corporation shall possess or exercise any corporate powers, except such as shall be necessary to the exercise of the powers so enumerated and given.

§ 9. Upon the dissolution of any corporation created, or to be created, and unless other persons shall be appointed by the Legislature, or by some Court of competent authority, the directors or managers of the affairs of such corporation, at the time of its dissolution, by whatever name they may be known in law, shall be the trustees of the creditors and stockholders of the corporation dissolved, and shall have full power to settle the affairs of the corporation, collect and pay the outstanding debts, and divide among the stockholders the moneys and other property that shall remain, after the payment of debts and necessary expenses.

§ 10. The persons so constituted trustees shall have authority to sue for and recover the debts and property of the dissolved corporation by the name of the trustees of such corporation, describing it by its corporate name, and shall be jointly and severally responsible to the creditors and stockholders of such corporation to the extent of its property and effects that shall come into their hands.

List of Members.

MAY 1889.

It is particularly requested that every change of address be immediately communicated to

THE SECRETARY,

AMERICAN SOCIETY OF CIVIL ENGINEERS,

127 EAST TWENTY-THIRD STREET,

NEW YORK, N. Y.

American Society of Civil Engineers.

OFFICERS, 1889.

MAX J. BECKER, *President.*

ALPHONSE FTELEY, E. L. CORTHELL, *Vice-Presidents.*

JOHN BOGART, *Secretary and Librarian.*

GEORGE S. GREENE, JR., *Treasurer.*

DIRECTORS.

CHARLES B. BRUSH,

WALTER KATTE,

ELIOT C. CLARKE,

ROBERT E. McMATH.

WILLIAM P. SHINN.

PRESIDENTS OF THE SOCIETY.

JAMES LAURIE,*

November 5, 1852, to November 6, 1867.

JAMES P. KIRKWOOD,*

November 6, 1867, to August 5, 1868.

WILLIAM J. McALPINE,

August 5, 1868, to November 3, 1869.

ALFRED W. CRAVEN,*

November 3, 1869, to November 1, 1871.

HORATIO ALLEN,

November 1, 1871, to November 5, 1873.

JULIUS W. ADAMS,

November 5, 1873, to November 3, 1875.

GEORGE S. GREENE,

November 3, 1875, to November 7, 1877.

E. S. CHESBROUGH,*

November 7, 1877, to November 6, 1878.

W. MILNOR ROBERTS,*

November 6, 1878, to November 5, 1879.

ALBERT FINK,

November 5, 1879, to November 3, 1880.

JAMES B. FRANCIS,

November 3, 1880, to January 18, 1882.

ASHBEL WELCH,*

January 18, 1882, to September 25, 1882.†

CHARLES PAINE,

January 17, 1883, to January 16, 1884.

DON J. WHITEMORE,

January 16, 1884, to January 21, 1885.

FREDERIC GRAFF,

January 21, 1885, to January 20, 1886.

HENRY FLAD,

January 20, 1886, to January 19, 1887.

WILLIAM E. WORTHEN,

January 19, 1887, to January 18, 1888.

THOMAS C. KEEFER,

January 18, 1888, to January 16, 1889.

MAX J. BECKER,

January 16, 1889.

* Deceased.

† Mr. Ashbel Welch died September 25, 1882, during his term of office as President.

List of Members

HONORARY MEMBERS.

[Hon. M. Am. Soc. C. E.]

Name.	Address.	Date of Membership.
ADAMS, JULIUS W.*	(<i>Past-President.</i>) Cons. Eng. Dept. Public Works, 31 Chambers st., New York City.	Oct. 26, 1888
ALLEN, HORATIO, †	(<i>Past-President.</i>) South Orange, N.J.	Mar. 4, 1874
DUANE JAMES C.	Brig-Gen. U. S. A., Pres. Acqueduct Commission, Room 209 Stewart Bldg., New York City.	Nov. 20, 1886
GREENE, GEORGE S.*	(<i>Past-President.</i>) 31 Boyken st., Morristown, N. J.	Oct. 26, 1888
HAWKSHAW, SIR JOHN	F. R. S., F. G. I., Knight Com- mander of the Brazilian Order of The Rose, 33 Great George st., London, S. W., England.	Nov. 3, 1880
McALPINE, WILLIAM J. ‡	(<i>Past-President.</i>) Franklin and Pen- dleton aves., New Brighton, Rich- mond Co., N. Y.	Oct. 26, 1888
NEWTON, JOHN	Pres. Panama R. R., Mills Bldg., New York City.	April 30, 1884
ROBINSON, MONCURE	1319 Spruce st., Philadelphia, Pa.	July 6, 1853
WRIGHT, HORATIO G.	Brig. and Bvt. Maj.-Gen., U. S. A., 1203 N. st., N. W., Washington, D. C.	March 3, 1880

CORRESPONDING MEMBERS.

Name.	Address.	Date of Membership.
FOX, SIR DOUGLAS	Victoria Mansions, 28 Victoria st., Westminster, London, England.	June 7, 1871
GLEIM, CHARLES O.	Eng. Bau-Deputation, Hamburg, Germany.	April 5, 1876
PONTZEN, ERNEST	Civil and Cons. Eng., 3 Avenue du Coq, Paris, France.	Jan. 5, 1876

* Elected Member Nov. 5, 1852. † Elected Member Dec. 4, 1867. ‡ Elected Member Feb. 3, 1853.

MEMBERS.

[M. Am. Soc. C. E.]

Name.	Address.	Date of Membership
ABBOT, FREDERIC V.	Capt. Corps of Engs., U. S. A., U. S. Eng. Office, 3, Southern Wharf, Charleston, S. C.	Dec. 3, 1884
ABERT, S. THAYER	U. S. Agent, 810 Nineteenth st., N. W., Washington, D. C.	Sept. 21, 1870
ACKENHEIL, CHARLES	Ch. Eng. New York Extension Balti- more and Ohio R. R., Staten Island Rapid Transit R. R., Baltimore & New York R. R., Elizabeth, N. J.	Feb. 2, 1887
AINSWORTH, DANFORTH H.	Newton, Iowa.	March 3, 1886
ALDEN, JOHN F.	Proprietor Rochester Bridge and Iron Works, Rochester, N. Y.	July 6, 1887
ALDRICH JAMES C.	North Scituate, R. I.	May 7, 1873
ALDRICH, TRUMAN H.	92 Southern ave., Mt. Auburn, Cin- cinnati, Ohio.	May 4, 1881
ALLEN, CHARLES A.	City Eng., Worcester, Mass.	June, 4, 1879
ALLEN, C. FRANK	Asst. Prof. R. R. Engineering, Mass. Inst. Tech., Boston, Mass.	Feb. 6, 1878
ALLEN, CALVIN H.	Pres. Western New York & Pennsyl- vania R. R., Mills Building, 15 Broad st., New York City.	Sept. 7, 1887
ALLEN, JAMES P.	9 Bull st., Charleston, S. C.	J. March 5, 1879 M. June 4, 1884
ALLEN, KENNETH,	Hydr. Eng., 310 Baird Bldg., Kansas City, Mo.	May 2, 1888
ALLEN, THEODORE	South St. Louis, Mo.	Nov. 16, 1870
AMBROSE, WILLIAM C.	Div. Road Mast. Southern Pacific R. R., Tulare, Cal.	April 4, 1888
AMWEG, FREDERICK J.	Ch. Eng. City Ave. and Gt'n Bridge Co., Keystone Bank Bldg., Phila- delphia, Pa.	May 7, 1888
ANDERSON, LATHAM	Johnston Bldg., Room 49, Cincinnati, Ohio.	May 2, 1888
ANDREWS, DAVID H.	Proprietor of Boston Bridge Works, 70 Kilby st., Boston, Mass.	Sept. 2, 1885

Name.	Address	Date of Membership.
ANDREWS, HORACE	City Eng., Albany, N. Y.	April 6, 1887
ANDREWS, JOHN W.	Ch. Eng. Columbus, Fort Wayne & Western Ry., Covington, Ky.	March 1, 1882
ANNAN, CHARLES L.	Asst. City Eng., St. Paul, Minn.	July 4, 1888
APPLETON, ELLERY C.	Revere, Mass.	June 3, 1885
APPLETON, THOMAS	Res. Eng. Union Pacific Ry., Omaha, Neb.	April 4, 1883
ARCHBALD, JAMES	Cons. Eng. Delaware, Lackawanna & Western R. R., Scranton, Pa.	May 15, 1872
ARCHER, WILLIAM	Asst. Eng. Cincinnati, Washington & Baltimore R. R., Cincinnati, Ohio.	March 2, 1881
ARCHIBALD, PETER S.	Ch. Eng. Intercolonial Ry., Moncton, N. B., Canada.	Jan 7, 1885
ARMINGTON, JAMES H.	Pres. and Eng. Brooklyn Gas Light Co., Brooklyn, N. Y.	July 6, 1870
ARTINGSTALL, SAMUEL G.	Cons. Eng., 28 Rialto Bldg., Chicago, Ill.	Oct. 6, 1886
ASHMEAD, FRANK M.	Res. Eng. Allegheny Valley R. R., Pittsburgh, Pa.	July 6, 1887
ASPINWALL, THOMAS	12 Pearl st., Boston, Mass.	May 2, 1888
ASSERSON, PETER C.	Civil Eng., U. S. N., U. S. Navy Yard, N. Y.	July, 5, 1882
ATKINSON, JOHN B.	Vice-Pres. and Treas. St. Bernard Coal Co., Earlington, Ky.	Sept. 5, 1877
ATWATER, ALMON B.	Supt. Chicago & Grand Trunk and Detroit, Grand Haven & Milwaukee Rys., Detroit, Mich.	May 5, 1886
ATWOOD, WILLIAM H.	79 Adelbert st., Cleveland, Ohio.	May 4, 1881
AUCHINCLOSS, WILLIAM S.	209 Church st., Philadelphia, Pa.	Feb. 17, 1869
AULLS, HERBERT L.	Pioneer Bldg., Room 33, Denver, Colo.	July 1, 1885
AXTELL, DECATUR	Receiver Richmond & Alleghany R. R., Richmond, Va.	March 3, 1886
BABCOCK, HENRY N.	U. S. Engineer's Office, Army Bldg., 39 Whitehall st., New York City.	Sept. 3, 1884
BACON, JOHN W.	Danbury, Conn.	July 12, 1877
BAKER, WILLIAM H.	Fitchburg, Mass.	Sept. 6, 1882
BALDWIN, FRED. II.	101 Commercial st., Greenpoint, N. Y.	Nov. 5, 1884
BALDWIN, THOMAS W.	Exchange Block, Room 1, Bangor, Me.	April 2, 1884
BALDWIN, WM. HENRY	Manor Hall, Yonkers, N. Y.	June 6, 1888
BALDWIN, WILLIAM J.	Advisory Eng. Warning and Ventilating Buildings, etc., 277 Pearl st., New York City.	Sept. 5, 1888
BALLARD, ROBERT	Rockhampton, Queensland, Australia.	Sept 1, 1880
BARLOW, JOHN Q.	(Care V. G. Bogue, Ch. Eng., } J. April 7, 1886 U. P. Ry.) Omaha, Neb. } M. July 4, 1888	

Name.	Address.	Date of Membership.
BARNARD, AUGUSTUS P.	(Care of Hawkesworth and Rankine.) 115 Broadway, New York City.	April 5, 1876
BARNARD, JOHN F.	Pres. and Gen. Man. Ohio & Missis- sippi Ry., Cincinnati, Ohio.	Sept. 1, 1881
BARNES, OLIVER W.	57 Broadway, New York City.	July 6, 1881
BARR, JACOB N.	Supt. Motive Power Chicago, Mil- waukee and St. Paul Ry., Milwa- kee, Wis.	Nov. 7, 1888
BARTLETT, WINTHROP	Eng. in chg. Olive st. Cable Line, Missouri R. R., 3303 Olive st., St. Louis, Mo.	Jan. 2, 1889
BASSEL, ROBERT	81 Bulow st., Berlin, W., Germany.	May 2, 1888
BASSETT, CARROLL PH.	Cor. Broad and Market sts., Newark, N. J.	Nov. 7, 1888
BATES, CHARLES J.	Civil Eng., 63 Broadway, (P. O. Box 2702.) New York City.	May 1, 1889
BATES, ONWARD	Eng. and Supt. Bridges and Bldgs. Chicago, Milwaukee & St. Paul Ry., Milwaukee, Wis.	Jan. 4, 1882
BAXTER, GEORGE S.	Treas. Northern Pacific R. R., } J. 17 Broad st., New York City. } M.	May 12, 1875 May 3, 1876
BECKER, MAX J.	(President.) Ch. Eng. Pittsburgh, Cincinnati & St. Louis R. R., Pitts- burgh, Pa.	Aug. 7, 1872
BECKWITH, LEONARD F.	Ch. Eng. Consolidated Telegraph & Electrical Subway Co., 18 Cortlandt st., New York City.	Dec. 16, 1868
BELKNAP, MORRIS S.	Gen. Man. Central R. R. & Banking Co. of Georgia, Savannah, Ga.	Ang. 7, 1872
BELL, ANDREW,	Cons. Eng., Almonte, Ontario, Canada.	Sept. 5, 1883
BELL, HENRY P.	Whitehouse, Alexandra Drive, Sefton Park, Liverpool, England,	June 4, 1884
BEMENT, ROBERT B. C.	Cor. 4th and Waconta sts., St. Paul, Minn.	Sept. 7, 1887
BENSON, FREDERICK S.	Eng. Nassau Gas Light Co., cor. Kent ave. and Cross st., Brooklyn, N. Y.	Feb. 7, 1877
BENT, CORNELIUS C. F.	Supt. Ohio & Mississippi Ry., Cincin- nati, Ohio.	May 1, 1889
BENYAUD, WILLIAM H. H.	Maj. Corps. Engs. U. S. A., San Francisco, Cal.	Nov. 3, 1875
BENZENBERG, GEORGE H.	City Eng., Milwaukee, Wis.	May 2, 1883
BERGEN, VAN BRUNT	Prin. Asst. Eng., Dept. of City Works, Brooklyn. (Residence, Bay Ridge, Kings Co., N. Y.)	June 17, 1868
BERRIAN, RICHARD M.	255 West 128th st., New York City.	May 4, 1887
BIDDLE, WILLIAM F.	209 South Third st., Philadelphia, Pa.	June 4, 1884

Name.	Address.	Date of Membership.
BILLIN, CHARLES E.	95 Fifth ave., Room 63, Pitts- burgh, Pa.	(J. April 5, 1876 (M. July 3, 1878
BISHOP GEORGE H.	Eng. Water Works, Middletown, Conn.	Aug. 7, 1872
BISHOP, THOMAS S.	Eng. Russell & Erwin Mfg. Co., New Britain, Conn.	Sept. 2, 1885
BISSELL, H.	Ch. Eng. Boston and Maine R. R., Boston, Mass.	Sept. 15, 1869
BIXBY, WILLIAM H.	Capt. Corps of Engs., U. S. A., U. S. Eng. Office, Wilmington, N. C.	April 5, 1882
BLACK, WILLIAM M.	Capt. Corps of Engs., U. S. A., P. O. Drawer R., St. Augustine, Fla.	June 6, 1888
BLACKFORD, FRANCIS W., JR.	Anaconda, Mont.	April 4, 1888
BLACKWELL, CHARLES	(Care Am. Soc. C. E.,) 127 East 23d st., New York City.	Sept. 7, 1881
BLAISDELL, ANTHONY H.	5602 South Broadway, St. Louis, Mo.	March 3, 1880
BLAKE, EDWARD J.	Ch. Eng. Hannibal & St. Joseph R.R. and Kansas City, St. Joseph and Council Bluffs R.R., St. Joseph, Mo.	April 3, 1889
BLAND, GEORGE P.	3214 Woodland ave., West (J. Philadelphia, Pa.	April 7, 1875 (M. May 4, 1881
BLAND, JOHN C.	257 South Fourth st., Philadel- phia, Pa.	(J. June 1, 1875 (M. June 4, 1879
BLICKENSDEFER, JACOB	Cons. Eng. Union Pacific R. R., Oak- land, Laclède Co., Mo.	June 1, 1881
BLICKENSDEFER, ROBERT	Oakland, Laclède Co., Mo.	June 1, 1881
BLISS, HENRY I.	La Crosse, Wis.	Sept. 5, 1883
BOGART, JOHN	(Secretary.) 127 East Twenty-third st., New York City.	Feb. 17, 1869
BOGUE, VIRGIL G.	Ch. Eng. Union Pacific Ry., Omaha, Neb.	Sept. 15, 1869
BOLLER, ALFRED P.	Civ. Eng., 71 Broadway, New York City	Dec. 4, 1867
BOLTON, CHANNING M.	Ch. Eng. Richmond & Danville R. R., 1300 Penn. ave., Washington, D.C.	Jan. 4, 1888
BOND, GEORGE M.	Man. Gauge Dept. The Pratt and Whitney Co. (Residence, 141 Wash- ington st.), Hartford, Conn.	Feb. 2, 1887
BONNETT, WILLIAM W.	Civ. Eng., Waterbury, Conn.	Sept. 4, 1872
BONNYN, WM. WINGFIELD	Cons. Eng., P. O. Box 100, Halifax, N. S.	Jan. 4, 1882
BONTECOU, DANIEL	Civ. Eng., P. O. Box L., Kansas City, Mo.	Nov. 5, 1879
BONZANO, ADOLPHUS,	Vice-Pres. and Ch. Eng. The Phoenix Bridge Co., Phoenixville, Pa.	Aug. 7, 1872
BONZANO, MAXIMILLIAN F.	Supt. Phila. and New York Div. Philadelphia & Reading R. R., 900 Green st., Philadelphia, Pa.	Jan. 6, 1886

Name.	Address.	Date of Membership.
BOOTH, WILLIAM H.	Mech. Eng. London Central Subway Ry., Leadenhall House, London, E. C., England.	July 4, 1888
BOUSCAREN, LOUIS G. F.	Cons. Eng., 99 West Fourth st., Cincinnati, Ohio.	April 7, 1875
BOWIE, AUGUSTUS J., JR.	Cons. Eng. 217 Sansome st. (P. O. Box 2471), San Francisco, Cal.	Nov. 1, 1882
BOYD, CHARLES R.	Wythevill, Wythe Co., Va.	April 6, 1881
BOYNTON, GEORGE H.	Asst. Eng. Chicago, Rock Island & Pacific Ry., Davenport, Iowa.	Sept. 3, 1884
BRACKENRIDGE, WILLIAM A.	Toms River, Ocean Co., N. J.	June 2, 1886
BRACKETT, DEXTER,	Supt. Eastern Div. Boston Water Works, 221 Federal st., Boston, Mass.	June 6, 1888
BRADLEY, TIMOTHY C.	Pres. Cookson Iron Works, corner Eighth and Mulberry sts., Kansas City, Mo.	Dec. 6, 1882
BRADLEY, WILLIAM H.	85 Water st., Boston, Mass.	Feb. 5 1879
BRAINARD, HENRY A.	Care <i>The Santa Clara Valley</i>), San Jose, Santa Clara Co., Cal.	Feb. 6, 1884
BRECKENRIDGE, CABELL	1045 Scott st., Covington, Ky.	June 1, 1881
BREEN, HOWARD	Eng. Keystone Bridge Co., Pittsburgh, Pa.	Apr. 4, 1888
BREITHAUP, WILLIAM H.	Baird Bldg., Kansas City, Mo.	{ J. June 4, 1884 { M. July 6, 1887
BRENDLINGER, PETER F.	Supt. for Walston H. Brown, Receiver Brown, Howard & Co., Tar-rytown, N. Y.	Sept. 7, 1887
BRIGGS, JOSIAH A.	Asst. Eng. Dept. Public Parks, in chg. Webster ave. Sewer, etc., St. James st., Fordham, New York City.	Sept. 1, 1886
BRIGGS, ROSWELL E.	Ch. Eng. Denver and Rio Grande Ry., Denver, Colo.	Sept. 15, 1869
BRINCKERHOFF, ALEX. G.	Supt. works, Johnson & Morris, 114 Leonard st., New York City.	Nov. 3, 1886
BRINCKERHOFF, H. WALLER	Office of <i>The Engineering and Building Record</i> , 277 Pearl st., New York City.	Nov. 7, 1883
BRINSMADE, DANIEL S.	Eng. Ousatonic Water Co., Birmingham, Conn.	Feb. 1, 1888
BRITTAIN, ALFRED	Asst. City Surveyor, City Hall, Montreal, Canada.	Nov. 2, 1881
BRODHEAD, CALVIN E.	Lehigh Coal and Iron Co., cor. Third and Cedar sts., St. Paul, Minn.	Feb. 21, 1872
BROOKS, FR. D. RICK	31 Milk st., Boston, Mass.	{ J. June 7, 1876 { M. Jan. 2, 1884

Name.	Address.	Date of Membership.
BROWN, ALBA F.	Gen. Man. Keystone Bridge Co., Pittsburgh, Pa.	Sept. 7, 1887
BROWN, CHARLES O.	Pres. The Riverside Bridge and Iron Works, 18 Broadway, New York City.	{ J. Jan. 6, 1875 M. Nov. 7, 1877
BROWN, E. L.	Civil Eng. and Eng. East Side Elec- tric St. Ry., Brockton, Mass.	Sept. 5, 1888
BROWN, THOMAS E., JR.	Ch. Eng. Otis Bros. & Co., 38 Park Row, New York City.	{ J. Nov. 3, 1880 M. April 2, 1884
BROWNE, GEORGE H.	Supt. Water Works, Pittsburgh, Pa.	Sept. 3, 1884
BRUEN, FRANK	Civil Eng. and Contractor, Box 253 New Haven, Conn.	June 1, 1886
BRUNER, DANIEL P.	Germantown, Pa.	{ J. Sept. 6, 1876 M. May 7, 1879
BRUSH, CHARLES B.	(Director.) 13 Newark st. Ho- boken, N. J.	{ J. Sept. 6, 1871 M. Sept. 5, 1877
BRYSON, ANDREW	12 Broadway, Room 44, New York City.	April 1, 1885
BUCHHOLZ, CARL W.	Eng. Bridges and Buildings, New York. Lake Erie and Western R.R., 21 Cortlandt st., New York City.	Sept. 1, 1886
BUCK, LEFFERT L.	Civil Eng., 18 Broadway, New York City.	Feb. 3, 1875
BUDDE, OTTO C. E.	Essen, Prussia.	July 4, 1888
BUDGE, ENRIQUE	Valparaiso, Chili.	Feb. 1, 1882
BUEL, RICHARD H.	206 Broadway, Room 47, New York City.	April 17, 1872
BULLOCK, WILLIAM D.	Asst. Eng. in chg. Bridges, City Engineer's office, Providence, R. I.	{ J. Sept. 5, 1877 M. July 4, 1888
BURBANK, GEORGE B.	Div. Eng. New Aqueduct, Brewster, N. Y.	July 4, 1888
BURDÉN, JAMES A.	Pres. The Burden Iron Co., Troy, N. Y.	July 2, 1879
BURGWYN, COLLINSON P. E.	U. S. Asst. Eng., 905½ E. Main st., Richmond, Va.	Nov. 1, 1882
BURNET, GEORGE	Street Commr., City Hall, St. Louis, Mo.	Mar. 1, 1882
BURNS, EDWARD C.	Cor. East. Fourth and Spring sts., Jamestown, N. Y.	July 5, 1882
BURPEE, MOSES	Ch. Eng. New Brunswick Ry., Wood- stock. New Brunswick, Canada.	Sept. 3, 1884
BURR, WILLIAM H.	Eng. Construction, The Phoenix Bridge Co., Phoenixville, Pa.	{ J. June 4, 1874 A. May 5, 1880 M. Mar. 3, 1886
BURROWES, FRANCIS S.	Asst. Eng., U. S. Engineer office, Portland, Me.	June 6, 1888

Name.	Address.	Date of Membership.
BUSH, HARRY D.	Supt. Lachine Works, Dominion Bridge Co., Montreal, Canada.	May 2, 1888
BUTLER, MATTHEW J.	Fraserville, Quebec, Canada.	April 1, 1885
BUTTERFIELD, FRANCIS E.	Hotel Hidalgo, Monterey, Mexico.	Sept. 1, 1886
BUXTON, CLIFFORD	Ch. Eng. Toledo & Ohio Central Ry., Toledo, Ohio.	May 6, 1885
BYLLESBY, HENRY M.	Vice-Pres. and Gen. Man. Westinghouse Electric Co., Pittsburgh, Pa. Vice-Pres. Sawyer-Man Electric Co., 510 West 23d st., New York City.	June 1, 1887
CAIN, WILLIAM	Citadel, Charleston, S. C.	Nov. 7, 1888
CALKINS, FRANK A.	585 East 136th st., New York City.	April 5, 1882
CAMP, FRED. A.	1709 Thomas pl., Minneapolis, Minn.	Sept. 3, 1884
CAMPBELL, ALLAN	125 Lexington ave., New York City.	Feb. 19, 1868
CAMPBELL, CHARLES E. H.	Council Bluffs, Iowa.	Oct. 3, 1883
CANFIELD, EDWARD	Ch. Eng. New York, Ont. & Western Ry., Middletown, N. Y.	Dec. 3, 1879
CARD, WILLIAM W.	Secretary, The Westinghouse Air Brake Co., Pittsburgh, Pa.	Sept. 5, 1883
CARPENTER, CLARENCE A.	Prin. Asst. Eng. Bridges and Bldgs. Chicago, Milwaukee & St. Paul Ry., Milwaukee, Wis.	May 2, 1888
CARREL, FREDERICK J.	Spokane Falls, Wash.	Mar. 5, 1884
CARTER, EDWARD C.	Prin. Asst. Eng. Chicago and North-Western Ry., Chicago, Ill.	April 4, 1888
CARTER, OBERLIN M.	First Lieut. Corps Engrs. U. S. A., P. O. Box 133, Savannah, Ga.	Mar. 7, 1888
CARTWRIGHT, ROBERT	1 Hawthorne st., Rochester, N. Y.	July 10, 1872
CHANUTE OCTAVE	Cons. Eng., 5 Ritchie pl., Chicago, Ill.	Feb. 19, 1868
CHAPMAN, WILLIS D.	Akron, Ohio.	May 7, 1884
CHASE, JOSIAH G.	Cambridgeport, Mass.	June 1, 1870
CHENEY, JOHN E.	Asst. City Eng., Boston, Mass.	May 7, 1884
CHILDS, JAMES E.	Asst. Gen. Man. Lake Shore and Michigan Southern R. R., Cleveland, Ohio.	Dec. 4, 1878
CHIPMAN, WILLIS	City Engineer, Brockville, Ontario, Canada.	June 6, 1888
CHITTENDEN, SAMUEL H.	East River, Conn.	April 5, 1876
CHRISTIE, JAMES,	Pencoyd, Montgomery Co., Pa.	May 7, 1873
CHURCH, BENJAMIN S.	Cons. Eng. New Croton Aqueduct, Room 213, Stewart Building, New York City.	Dec. 4, 1867
CHURCH, CHARLES T.	Saratoga Springs, N. Y.	May 1, 1889

Name.	Address.	Date of Membership.
CHURCH, GEORGE EARL	9 New Broad st., E. C., London, Eng-land.	Nov. 2, 1887
CHURCHILL, CHARLES S.	Eng. Main Way, Norfolk and Western R. R., Roanoke, Va.	May 1, 1889
CISNEROS, FRANCIS J.	Barranquilla, U. S. Colombia.	May 15, 1872
CLAPP, L. RUSSELL	Asst. Eng. Dept. City Works, Room 29, Brooklyn, N. Y.	Feb 1 1888
CLARK, JACOB M.	119 Liberty st., New York City. (Residence, 145 Madison ave., Elizabeth, N. J.)	Jan. 29, 1868
CLARKE, DAVID D.	Asst. Eng. Northern Pacific R. R., Tacoma, Wash.	July 5, 1882
CLARKE, ELIOT C.	(Director.) 15 Brimmer st., Boston, Mass.	Sept. 4, 1878
CLARKE, H. WADSWORTH	Civil Eng., 11 Granger Block, Syracuse, N. Y.,	Mar. 15, 1871
CLARKE, THOMAS C.	1 Broadway, New York City.	Mar. 18, 1886
CLEEMAN, THOMAS M.	2135 Spruce st., Philadelphia, Pa.	Oct. 1, 1879
CLEMENT, FRANK H.	124 West Forty-eighth st., New York City.	Nov. 1, 1882
CODWISE, EDWARD B.	Ch. Eng. Ulster & Delaware R. R., and Delaware & Otsego R. R., Kingston, N. Y.	Sept. 5, 1888
COE, WILLIAM W.	Ch. Eng. Norfolk & Western R. R., Roanoke, Va.	April 3, 1889
COFFIN, AMORY	Ch. Eng. Phoenix Iron Co., Phoenixville, Pa.	Mar. 3, 1875
COFFIN, WILLIAM B.	Supt. New York, Lake Erie & Western R. R., Susquehanna, Pa.	Nov. 6, 1872
COGSWELL, WILLIAM B.	Gen. Man. Solvay Process Co., 25 White Building, Syracuse, N. Y.	{ A. Feb. 15, 1870 M. Oct. 16, 1872
COHEN, MENDES	825 N. Charles st., Baltimore, Md.	Dec. 4, 1867
COLLINGWOOD, FRANCIS	Elizabeth, N. J.	Mar. 10, 1869
COLTON, OBEN B.	2009 Wallace st., Philadelphia, Pa.	April 2, 1884
COMSTOCK, CYRUS B.	Col. Corps of Engs., Bvt. Brig.-Gen. U. S. A., Army Bldg, New York City.	Sept. 1, 1880
CONNOR, ADDISON	Asst. Eng. Cairo Rridge, Cairo, Ill.	Jan. 5, 1887
CONSTABLE, CASIMIR	Constableville, N. Y.	June 17, 1868
COOLEY, GEORGE W.	Ch. Eng. Minneapolis, Lyndale & Minnetonka Ry., 42 South Third st., Minneapolis, Minn.	Sept. 2, 1885
COOLMAN, DEWITT C.	Ravenna, Ohio.	Mar. 4, 1874
COOPER, SAMUEL L.	Asst. Eng. in chg. Croton Aqueduct, Box 767, Yonkers, N. Y.	Feb. 6, 1889

Name.	Address.	Date of Membership.
COOPER, THEODORE	Civil and Mech. Eng., 35 Broadway, New York City.	Mar. 4, 1874
COFFÉE, HENRY ST. L.	Civil Eng., 101½ Washington st., Vicksburgh, Miss.,	Oct. 5, 1887
CORNELL, GEORGE B.	45 Broadway, New York City.	{ J. Aug. 6, 1879 M. Oct. 6, 1886
CORNELL, OLIVER H. P.	Ch. Eng. Cincinnati, Alabama & At- lantic R. R., Tullahoma, Tenn.	April 4, 1883
CORTHELL, ELMER L.	(<i>Vice-President.</i>) 205 La Salle st., Chicago, Ill.	Sept. 2, 1874
COTTON, JOSEPH P.	Civil and Sanitary Eng., Newport, R. I.	June 7, 1876
COWLES, WALTER L.	King Iron Bridge and Mfg. Co., Cleveland, Ohio.	Mar. 6, 1889
COX, A. BEEKMAN	Cherry Valley, N. Y.	May 7, 1873
COXE, ECKLEY B.	Drifton, Luzerne Co., Pa.	Feb. 7, 1877
CRAIG, CHAMBERS M.	Prin. Asst. Eng. Alabama Midland R. R., Bainbridge, Ga.	Nov. 3, 1886
CRAIGHILL, WILLIAM P.	Col. Corps of Engs., U. S. A., 1734 St. Paul st., Baltimore, Md.	Oct. 7, 1885
CRAVEN, ALFRED	Div. Eng. New Croton, Aqueduct, Dobb's Ferry, N. Y.	Dec. 5, 1888
CRAVEN, HENRY S.	Civil Eng. U. S. N., Navy Yard, New York.	Dec. 3, 1884
CRAWFORD, WILLIAM	Sault Ste. Marie, Ontario, Canada,	Nov. 7, 1888
CROES, J. JAMES R.	Ch. Eng. Suburban Rapid Transit Co., 40 Wall st., New York City.	Dec. 4, 1867
CROSBY, BENJAMIN L.	Rulo, Richardson Co., Neb.	{ J. June 2, 1880 M. Oct. 6, 1886
CROSBY, HORACE	New Rochelle, N. Y.	Feb. 17, 1869
CROSBY, WILSON	125 Hammond st., Bangor, Maine.	Sept. 15, 1869
CROWELL, J. FOSTER	P. O. Box 1014, Geneva, N. Y.	Dec. 1, 1880
CULYER, JOHN Y.	Civil Eng. and Landscape Architect, Potter Bldg., Park Row and Beek- man st., New York City.	Feb. 17, 1869
CUNNINGHAM, DAVID W.	Grandin, Cass Co., Dakota.	May 7, 1873
CUNNINGHAM, JAMES H.	26 Victoria st., London, S. W., Eng- land.	Aug. 6, 1879
CURRIE, DANIEL MCN.	U. S. Asst. Eng., Room 428, Custom House, St. Louis, Mo.	May 5, 1880
CURTIS, FAYETTE S.	Ch. Eng. New York, New Haven & Hartford R. R., New Haven, Conn.	April 3, 1859
CURTIS, WENDELL R.	Civil Eng., Savannah, Ga.	{ J. Mar. 3, 1875 M. June 4, 1884
CURTIS, WALTER W.	557 Drake Block, St. Paul, Minn.	Sept. 5, 1888

Name.	Address.	Date of Membership.
CURTIS, WILLIAM G.	Asst. to Gen. Man. and Supt. Track Southern Pacific Company, Pacific System (Lock Box 2328), San Francisco, Cal.	May 3, 1882
CUSHING, OLIVER E.	Eng. Lowell Gas Light Co., Lowell, Mass.	July 10, 1872
DAGRON, JAMES G.	415 Broadway, Room 30, New York City.	Oct. 6, 1886
DARLINGTON, FRANK G.	Supt. and Secy. Cincinnati and Muskingum Valley R. R., Zanesville, Ohio.	J. Feb. 6, 1884 M. April 6, 1887
DARRACH, CHARLES G.	(Civil and Hydr. Eng., Wilson Bros. & Co.), Drexel Bldg., Philadelphia, Pa.	Jan. 5, 1876
DAVIS, CHARLES	County Eng., Pittsburgh, Pa. (72 Western ave., Allegheny City, Pa.)	Sept. 15, 1869
DAVIS, CHARLES E. L. B.	Maj. Corps of Engs., U. S. A., P. O. Drawer 7, Milwaukee, Wis.	July 12, 1877
DAVIS, CHESTER B.	Hydr. and San. Eng., Room 549, The Rookey Bldg., Chicago, Ill.	Feb. 1, 1882
DAVIS, FRANK P.	Res. Eng. Nicaragua Canal Cons. Co., Greytown, Nicaragua.	Feb. 1, 1888
DAVIS, JOSEPH P.	Cons. Eng. (Care Met. Tel. & Tel. Co.), 18 Cortlandt st., New York City.	Jan. 29, 1868
DAWLEY, EDWIN P.	Eng. New York, Providence & Boston R. R., Providence, R. I.	April 1, 1885
DEANS, JOHN STERLING	Asst. Eng. Estimating and Designing Dept., The Phoenix Bridge Co., Phoenixville, Pa.	May 4, 1887
DEFREES, MORRIS M.	Eng. Bridges and Buildings. Ohio. Indiana & Western R. R., Indianapolis, Ind.	March 3, 1880
DEFUNIAK, FREDERICK	Cons. Eng., 204 East Chestnut st., Louisville, Ky.	May 7, 1873
DELAFIELD, CLARENCE	2 Wall st., New York City.	Feb. 1, 1888
DEMPSTER, ALEXANDER	43 Sixth ave., Pittsburgh, Pa.	Nov. 5, 1879
DENNIS, WILLIAM F.	Eng. Panama R. R., Colon, U. S. Colombia; address: Panama R. R., Mills Bldg., New York City.	Feb. 1, 1888
DERRICK, HENRY C.	Halifax C. H., Halifax Co., Va.	Oct. 5, 1887
DEVIN, GEORGE	(Care Theodore Cooper), 35 Broadway, New York City.	Sept. 7, 1887
DEYO, S. L. F.	Asst. Eng. New York, New Haven & Hartford R. R., 10 East 119th st., New York City.	June 6, 1888

Name.	Address.	Date of Membership.
DICKINSON, POMEROY P.	Ch. Eng. Poughkeepsie Bridge Co. and its connections and General Cons. Eng., 7 Nassau st., New York City.	Jan. 17, 1872
DIDIER, PAUL	Ch. Eng. Pittsburgh and Western R. R., Allegheny, Pa.	March 6, 1889
D'INVILLIERS, CAMILE S.	Eng. Cons. Pennsylvania R. R., Philipsburg, Pa.	Jan. 4, 1885
DOANE, EDWIN A.	Hapeville, Fulton Co., Ga.	June 7, 1876
DOANE, THOMAS	Charlestown, Mass.	June 7, 1882
DOANE, WALTER A.	Eng. Bridges Oregon Pacific R. R., Corvallis, Ore.	Sept. 7, 1881
DODGE, JOSEPH T.	20 Third ave., west, Duluth, Minn.	April 6, 1887
DONOVAN, JOHN J.	Ch. Eng., Fairhaven & Southern R. R., Fairhaven Land Co., Skagit Coal & Transpt. Co., Bellingham, Wash.	J. April 7, 1886 M. April 4, 1888
DORAN, FRANK C.	Ind. Union Ry., Indianapolis, Ind.	Sept. 5, 1883
DORSEY, EDWARD B.	International Club, Northumberland ave., Trafalgar sq., London, England. (Care Union League Club New York City.)	June 4, 1879
DOUGLAS, HENRY T.	Ch. Eng. Baltimore and Ohio R. R., Baltimore, Md.	July 6, 1887
DOWNE, GEORGE	Supt. Motive Power New South Wales Govt. Steam Tramways, Randwick, Sydney, New South Wales, Australia.	Sept. 5, 1883
DRAKE, WILLIAM A.	Asst. Eng. The Denver & Santa Fé Ry., and Supt. West. Div. A. T. & S. F. Ry., Pueblo, Col.	Dec. 5, 1883
DUBARRY, JOSEPH N.	Second Vice-Pres. Penn. R. R., 233 South Fourth st., Philadelphia, Pa.	Jan. 6, 1875
DUN, JAMES	Ch. Eng. St. Louis and San Francisco R. R., Seventh and Cerre sts., St. Louis, Mo.	June 7, 1876
DUNCKLEE, JOHN B.	Asst. Eng., Potomac River Improvement, 2136 Pennsylvania ave., Washington, D. C.	April 2, 1873
DUNLAP, DE CLEMONT	Asst. Eng. Dept. Public Works, 296 Warren ave., Chicago, Ill.	Jan. 4, 1888
DURHAM, C. WHEELER	Pres. and Gen. Man. The Durham House Drainage Co. of New York, 158 and 160 West Twenty-seventh st., New York City.	April 4, 1877

Name.	Address.	Date of Membership.						
EARLEY, JOHN E.	Eng. for Bowes, Scott, Read, Campbell & Co., Mexico; address: Irapuato, Guanajuato, Mexico.	April 5, 1876						
EATON, FREDERICK	City Eng., Los Angeles, Cal.	May 5, 1886						
EAYRS, NORMAN W.	Asst. Supt. Structures St. Louis Bridge & Tunnel R. R., St. Louis, Mo.	June 3, 1885						
ECKART, WILLIAM R.	P. O. Box 1844, San Francisco, Cal.	Jan. 5, 1881						
ECKERT, EDWARD W.	Room 286, Washington Bldg., 1 Broadway, New York City.	Feb. 3, 1886						
EDWARDS, NATHANIEL M.	Appleton, Wis.	June 14, 1874						
EGGLESTON, T. C.	Eng. Maintenance of Way C. & O. Ry., Richmond, Va.	Dec. 7, 1887						
EGLESTON, THOMAS	Prof. School of Mines, Columbia College, 35 West Washington square, New York City.	March 5, 1879						
ELLIOT, CHARLES D.	Somerville, Mass.	Aug. 7, 1872						
ELLIS, S. CLARENCE	City Hall, Boston, Mass.	Aug. 7, 1872						
ELMER, HOWARD N.	Man. Western Office, New Jersey Steel & Iron Co., St. Paul, Minn.	April 7, 1886						
ELY, THEODORE N.	Gen. Supt. Motive Power Penn. R. R., Altoona, Pa.	March 2, 1881						
EMERSON, GEORGE D.	Hancock, Mich.	Sept. 18, 1872						
EMERY, CHARLES E.	Cons. Eng., 22 Cortlandt st., New York City.	May 6, 1874						
ENDICOTT, MORDECAI T.	Civil Eng. U. S. N., U. S. Navy Yard, Norfolk, Va.	April 7, 1877						
ENGLE, ROBERT L.	Lincoln ave., Walnut Hills, Cincinnati, Ohio.	Sept. 7, 1881						
ERNST, OSWALD H.	Maj. Corps Engrs. U. S. A., Galveston, Texas.	July 4, 1888						
EVANS, GEORGE E.	City Eng., Lowell Mass.	May 2, 1888						
EVANS, LOUIS P.	(Cofrode & Evans, Engrs. and Contractors.) Pottstown, Pa.	Sept. 3, 1884						
FANNING, JOHN T.	Agent and Ch. Eng. St. Anthony Falls Water Power Co., Union Depot Bldg., Minneapolis, Minn.	Aug. 7, 1872						
FARNHAM, ROSCOE E.	228 La Salle st., Room 53, Chicago, Ill.	Sept. 7, 1887						
FELTON, HERBERT C.	Supt. Kaighn's Point and Philadelphia Ferry Co., Camden, N. J.	June 1, 1887						
FELTON, SAMUEL M., JR.	First Vice-Prest. New York, Lake Erie & Western R. R., 21 Cortlandt st., New York City.	Jan. 4, 1882						
FERGUSON, JOHN W.	Asst. Eng. Bridges and Bldgs., New York, Lake Erie & Western R. R., 187 West st., New York City.	<table border="0"> <tr> <td>J.</td> <td>Feb.</td> <td>2, 1881</td> </tr> <tr> <td>M.</td> <td>Feb.</td> <td>2, 1887</td> </tr> </table>	J.	Feb.	2, 1881	M.	Feb.	2, 1887
J.	Feb.	2, 1881						
M.	Feb.	2, 1887						

Name.	Address.	Date of Membership.
FERRY, CHARLES A.	Asst. City Eng., 18 City Hall, New Haven, Conn.	J. May 4, 1881 (M. Jan. 2, 1889
FIELD, BURR K.	Vice-Pres. and Treas. Berlin Iron Bridge Co., East Berlin, Conn.	Oct. 1, 1884
FIELD, GEORGE S.	Union Bridge Co., Buffalo, N. Y.	April 7, 1880
FIELDS, SAMUEL J.	564 Ellicott st., Buffalo N. Y.	March 5, 1884
FILLEY, HIEL H.	Ch. Eng. Mex. Nat. Cons. Co., Security Bldg., Kansas City, Mo.	Jan. 3, 1883
FINK, ALBERT	(<i>Past President.</i>) Com. of Trunk Lines, 346 Broadway, New York City.	July 20, 1870
FINK, RUDOLPH	Pres. and Gen. Man. Little Rock & Memphis R. R., Little Rock, Ark.	Sept. 21, 1870
FINNEY, FREDERICK N.	Milwaukee, Wis.	Sept. 3, 1879
FIRSTSTONE, FRANK	Easton, Pa.	Aug. 7, 1878
FISHER CLAEK	Fisher Rail Joint Works, Trenton, N. J.	Oct. 19, 1870
FISHER, EDWIN A.	Div. Eng. Main. Way, Western New York and Penn. R. R., and Ch. Eng. Rochester Electric Ry., Rochester, N. Y.	July 4, 1888
FISHER, FRANCIS D.	Res. Eng. Suburban Rapid Transit Co., (Residence, 19 West 125th st., New York City.	May 2, 1888
FITCH, ASA B.	1304 South Sixth st., Terre Haute, Ind.	May 5, 1884
FITZGERALD, DESMOND	Res. Eng. Additional Supply and Supt. West. Div. Boston Water Works, Brookline, Mass.	Sept. 3, 1884
FITZGERALD, J. LELAND	Sanitary Eng., Schenectady, N. Y.	Jan. 2, 1889
FLAD, EDWARD	Civil and Mech. Eng., Laclede Bldg. St. Louis, Mo.	J. Jan. 7, 1885 (M. Feb. 1, 1888
FLAD, HENRY	(<i>Past President.</i>) Pres. Board Public Improvements, City Hall, St. Louis, Mo.	Feb. 15, 1871
FLAGG, J. FOSTER,	(Care Am. Soc. C. E.), 127 East Twenty-third st., New York City.	Oct. 7, 1874
FLEMING, SANDFORD	Ottawa, Canada.	Sept. 18, 1872
FOGG, CHARLES E.	Div. Eng. Poughkeepsie and Connecticut R. R., 51 Montgomery st., Poughkeepsie, N. Y.	Oct. 16, 1872
FOOTE, ARTHUR D.	Eng. and Man. Idaho Mining and Irrigation Co., Boise City, Idaho.	May 7, 1884
FORCE, CYRUS G.	Cons. Civil Eng., Forest City House, Cleveland, Ohio.	Feb. 6, 1878
FORNEY, MATTHIAS N.	Editor <i>Railroad and Engineering Journal</i> , 145 Broadway, New York City.	Sept. 6, 1871

Name.	Address.	Date of Membership.
FORSYTH, ROBERT	Man. Union Steel Co., 3179 Ashland ave., Chicago, Ill.	May 12, 1875
FOSTER, WILBUR F.	Eng. and Contractor, 3 Berry Block, Nashville, Tenn.	May 7, 1873
FOUCQUET, JOHN D.	Architect New York Central and Hudson River R. R., Room 21, Grand Central Station, New York City.	June 3, 1885
FOX, S. WATERS	Div. Eng. in chg. St. Joseph Div. Impvt. Missonri River, St. Joseph, Mo.	J. July 7, 1880 M. Oct. 6, 1886
FRANCIS, GEORGE B.	Prin. Asst. Eng. New York, Providence & Boston R. R., Providence, R. I.	J. Sept. 5, 1883 M. Nov. 7, 1888
FRANCIS, HENRY N.	Asst. Eng. City Engrs. Office, Providence, R. I.	J. March 1, 1876 M. Nov. 7, 1888
FRANCIS, JAMES B.	(Past President.) Cons. Eng. of Proprietors of Locks and Canals on Merrimack River, Lowell, Mass.	Nov. 5, 1852
FRANKLIN, WILLIAM B.	Hartford, Conn.	April 1, 1874
FRAZIER, HARRY	Supt. Main. Way Chesapeake & Ohio Ry., Cincinnati, Ohio.	May 1, 1889
FRAZIER, JAMES L.	Supt. Newport News & Mississippi Valley Co., Louisville, Ky.	Sept. 1, 1880
FREEMAN, JOHN R.	Hydr. Eng. and Inspector Assoc. Factory Mutual Ins. Co., 31 Milk st., Boston, Mass.	J. June 7, 1882 M. April 3, 1889
FRITH, ARTHUR J.	Newark Machine Tool Works, Newark, N. J.	Jan. 3, 1883
FRIZELL, JOSEPH P.	Asst. Eng. U. S. A., office Impvt. Cumberland and Tennessee Rivers, Nashville, Tenn.	Jan. 3, 1883
FTELEY, ALPHONSE	(Vice-President.) Ch. Eng. Aqueduct Commission, 213 Stewart Bldg., New York City.	Jan. 5, 1876
FUERTES, ESTEVAN A.	Dean of the Faculty of Engineering, Cornell University, Ithaca, N. Y.	Feb. 17, 1869
FULLER, EUGENE F.	Hydr. Eng., 11 Wall st., New York City.	May 5, 1886
FULLER, FRANKLIN I.	(Care Oregon Iron & Steel Co.) Oswego, Oregon.	Jan. 6, 1886
FULLER, FRANK L.	Civil Eng., 12 Pearl st., Room 36, Boston, Mass.	J. April 4, 1883 M. April 4, 1888
FULLER, SIDNEY T.	P. O. Box 37, Kennebunk, Me.	May 3, 1871
FULTON, JOHN A.	Res. Eng. Toledo, St. Louis and Kansas City R. R., Toledo, Ohio.	May 4, 1887

Name.	Address.	Date of Membership.
GARDINER, EDMUND L. B.	Eng. Dundee Water Power and Land Co., Passaic, N. J.	June 7, 1882
GARDNER, G. CLINTON	Greenfield Mass.	Nov. 3, 1875
GATCHELL, GEORGE S.	Gen. Supt. Western New York and Pennsylvania R. R., Buffalo, N. Y.	May 7, 1884
GATES, CHRISTOPHER L.	Eng. Smith Bridge Co., Toledo } Ohio. (M.	J. Dec. 4, 1878 M. Sept. 5, 1883
GATES, HORACE D.	Dep. City Eng., 2532 Sutter st., San Francisco, Cal.	March 7, 1883
GAYLER, CARL	Bridge Eng., City Hall, St. Louis, Mo.	Sept. 3, 1884
GELETTE, WILLIAM D.	(Care Ch. Eng. Southern Pacific Co.) cor. Fourth and Townsend sts., San Francisco, Cal.	April 1, 1885
GERBER, EMIL	With George S. Morison, 205 La-Salle st., Chicago, Ill.	Feb. 1, 1888
GIBBS, CHARLES W.	Ch. Eng. Silverton R. R., Silverton, Colo.	Jan. 2, 1889
GIELOW, HENRY J.	Eng. and Naval Architect, 239 Broadway, New York City.	Dec. 6, 1882
GILBERT, CHARLES P.	Sec. and Man. Edison Illuminating Co., Detroit, Mich.	Feb. 6, 1878
GILLESPIE, JOSHUA L.	P. O. Box 2396, (Residence, cor. St. Peter and Seventh sts.) St. Paul, Minn.	J. Feb. 3, 1875 M. April 2, 1884
GILLHAM, ROBERT	19 Gibraltar Bldg., Kansas City, Mo.	June 2, 1886
GLADDING, HENRY H.	30 Stanley st., New Haven, Conn.	J. July 1, 1885 M. Jan. 4, 1888
GLOVER, OLIVER L.	La Union, Salvador, Central America.	April 3, 1878
GOAD, CHARLES E.	1689 Notre Dame st., Montreal, Canada; and 53 New Broad st., London, E. C., England.	Sept. 7, 1881
GODWIN, BRYANT	54 Frankfort st., New York City.	April 4, 1877
GOLAY, PHILIP	Vevay, Ind.	Sept. 5, 1877
GOLDMARK, HENRY	Eng. Bridges Kansas City, Ft. Scott & Memphis R. R., Kansas City, Mo.	J. May 7, 1884 M. June 6, 1888
GOODRICH, WILBUR F.	5 Pemberton sq., Boston, Mass.	May 4, 1887
GOODWIN, H. STANLEY	Gen. Eastern Supt. Lehigh Valley R. R., South Bethlehem, Pa.	July 20, 1870
GOODWIN, JOHN M.	Sharpsville, Mercer Co., Pa.	Sept. 4, 1872
GOTTLIEB, ABRAHAM	Major Block, Room 75, Chicago, Ill.	Sept. 4, 1872
GORDON, ROBERT	(Care H. S. King & Co.) 45 Pall Mall, London, England.	Feb. 4, 1882
GOULD, E. SHERMAN	Cons. Eng. Scranton Gas and Water Co., Scranton, Pa.	Nov. 4, 1885
GOWEN, CHARLES S.	Div. Eng. New Croton Aqueduct, Sing Sing, N. Y.	Mar. 7, 1888

Name.	Address.	Date of Membership.
GRAFF, FREDERIC	(<i>Past President.</i>) Hydr. Eng., 1337 Arch st., Philadelphia, Pa.	May 7, 1873
GRAHAM, CHARLES H.	Asst. Eng. Department Public Parks, 445 East One Hundred and Seventeenth st., New York City.	Sept. 7, 1887
GRANT, WILLIAM H.	Asst. Architect, New Naval Observatory, Georgetown Heights, D. C. (P. O. address, 3107 N. st., West Washington, D. C.)	July 2, 1873
GRAY, GEORGE E.	1115 Bush st., San Francisco, Cal.	July 2, 1873
GRAY, SAMUEL M.	City Eng., Providence, R. I.	May 15, 1872
GREENE, BENJAMIN D.	2 East Fifteenth st., New York City.	Nov. 4, 1885
GREENE, BENJAMIN H.	U. S. Surveyor-Gen. of Montana, Helena, Montana.	May 1, 1878
GREENE, CHARLES E.	Prof. of Civil Engineering University of Michigan, Ann Arbor, Mich.	Jan. 4, 1882
GREENE, DAVID M.	Director Rensselaer Polytechnic Institute, 41 First st., Troy, N. Y.	May 20, 1868
GREENE, EDWARD A.	Ch. Eng. Zanesville & Ohio River Ry., Zanesville, Ohio.	July 4, 1888
GREENE, FRANCIS V.	Vice-Pres. Barber Asphalt Paving Co., 1 Broadway, New York City.	June 3, 1885
GREENE, GEORGE S., JR.	(<i>Treasurer.</i>) Eng.-in-Ch., Department of Docks, Pier A, North River New York City.	Dec. 4, 1867
GREENE, JOSEPH N.	Ch. Eng., Maine Shore Line R. R. Bangor, Me.	Oct. 5, 1887
GREENOUGH, MALCOLM S.	Eng. Boston Gas Co., 24 West st., Boston, Mass.	Dec. 4, 1878
GRIMSHAW, J. WALTER	Australian Club, Bent st., Sydney, New South Wales, Australia.	Nov. 7, 1888
GRISWOLD, FRANK L.	451 $\frac{n}{u}$ Calle Reconquista, Buenos Ayres, Argentine Republic.	May 2, 1883
GUNNELL, WILLIAM C.	600 Twentieth st., Washington, D. C.	Feb. 7, 1877
GUTHRIE, EDWARD B.	Deputy City Eng., City Hall, Buffalo, N. Y.	{ A. Sept. 3, 1884 { M. Oct. 5, 1887
GZOWSKI, CASIMIR S.	Toronto, Canada.	Dec. 2, 1868
HAIGHT, STEPHEN S.	City Surveyor and Civil Eng., West Farms, New York City.	June 1, 1881
HAINES, HENRY S.	Gen. Man. Plant System (Savannah, Florida and Western Ry., Charleston & Savannah Ry., Brunswick & Western R. R. and Plant S.S. Line.) Savannah, Ga.	Nov. 2, 1887

Name.	Address.	Date of Membership.
HALL, WM. HAMMOND	Cons. State Eng. of California, Cons. Eng. U. S. Irrigation Survey, Flood Bldg., San Francisco, Cal.	Jan. 2, 1884
HAMBLETON, FRANCIS H.	Cons. Eng., 8 South st., Baltimore, Md.	Mar. 5, 1873
HAMILTON, WILLIAM G.	105 East Twenty-first st., New York City.	Oct. 7, 1863
HANDY, EDWARD A.	Eng. Lake Shore Div., Lake Shore & Michigan Southern Ry., Cleveland, Ohio.	Jan. 2, 1889
HANNAFORD, EDMUND P.	Ch. Eng. Grand Trunk R. R., Montreal, Canada.	Sept. 18, 1872
HARDING, GEO. EDWARD	Civil Eng. and Architect, 40 Exchange pl., New York City.	Mar. 3, 1875
HARDING, HENRY	Hartland Four Corners, Vt.	May 7, 1873
HARDY, GEORGE R.	1423 Chapel st., New Haven, Conn.	Nov. 7, 1888
HARISON, R. MORLEY	99 Douglas st., Glasgow, Scotland.	May 6, 1885
HARLOW, JAMES H.	Eng. and Contractor, 411 Wood st., Pittsburg, Pa.	Mar. 4, 1874
HARLOWE, CHARLES	1417 Sixth st., S. E., Minneapolis, Minn.	Sept. 7, 1887
HARRIS, ROBERT L.	187 Washington Building, 1 Broadway, New York City.	May 3, 1876
HARRIS, WILLIAM P.	Gen. Supt. St. Joseph, St. Louis & Santa Fé Ry., St. Joseph, Mo.	June 1, 1881
HARRISON, EDLOW W.	Rooms 74 and 75, Fuller Bldg., Jersey City, N. J.	June 3, 1885
HARROD, BENJAMIN M.	City Eng., City Hall, Room 19, New Orleans, La.	April 7, 1877
HASELL, BENTLEY D.	Manufrs. Agent and Railway Com. Merchant, office 66 Pine st., (Residence, 1648 Tenth ave.), New York City.	July 3, 1873
HASKINS, WILLIAM J.	Asst. Eng. Department Public Works, 31 Chambers st. (Residence, 41 West 105th st.), New York City.	J. Mar. 7, 1883 M. Dec. 1, 1886
HASWELL, CHARLES H.	Civil and Marine Eng., Supg. Eng. Department Public Charities and Correction, 42 Broadway, New York City.	Jan. 29, 1868
HAUPT, LEWIS M.	Univ. Pennsylvania, Philadelphia, Pa.	June 6, 1883
HAVEN, WILLIAM A.	Ch. Eng. Northern Pacific & Montana R. R. Helena, Montana.	March 5, 1873
HAVILAND, ARTHUR	New York Central and Hudson River R. R. Grand Central Station, New York City.	J. Jan. 4, 1882 M. Jan. 4, 1888

Name.	Address.	Date of Membership.
HAWKS, JAMES D.	Ch. Eng. Michigan Central R. R., Detroit, Mich.	Dec. 3, 1884
HAYES, EDMUND	Union Bridge Co., Buffalo, N. Y. } J.	March 6, 1878
HAYES, R. SOMERS	32 Nassau st., (Residence 39 West 38th st.) New York City. } M.	March 5, 1884
HAZLEHURST, GEORGE B.	Eng. Bridges and Tests Baltimore & Ohio R. R., Camden Station, Balti- more, Md.	Sept. 6, 1882
HEALD, SIMPSON C.	31 Milk st., Boston, Mass.	Feb. 1, 1888
HEGEMAN, ALLEN B.	Div. Eng. Interoceanic Ry., Tepeya- huaco, Puebla, Mexico.	Nov. 4, 1885
HEGEMAN, WILLIAM W.	(Care Heman Clark & Co.) Birmingham, Conn.	Feb. 1, 1888
HEMBERLE, EDWARD	(Care Heman Clark & Co.) Birmingham, Conn.	Feb. 6, 1884
HEMBERLE, EDWARD	14 Douglas st., Karlsruhe, Baden, Germany.	Jan. 7, 1874
HENNING, CHARLES S.	Pres. Cherokee Coal Mining Co. Cher- okee, Kan.	Jan. 7, 1885
HENNY, DAVID C.	(With Howland & Ellis), Equitable Bldg., Boston, Mass.	Jan. 7, 1885
HENRY, D. FARRAND	(With Howland & Ellis), Equitable Bldg., Boston, Mass.	Sept. 7, 1887
HENTHORN, JOHN T.	Detroit, Mich.	July 7, 1875
HENTHORN, JOHN T.	(Remington & Henthorn, Cons. and Mech. Engs.) 146 Westminster st., Providence, R. I.	Dec. 3, 1884
HERBERT, ARTHUR P.	Locating Eng. Zacatecas Div. Mexi- can National Cons. Co., P. O. address Calle de Ortega No. 28, Mexico, Mexico.	Sept. 5, 1888
HERING, RUDOLPH	31 Chambers st., Room 19, New York City.	Jan. 5, 1876
HERMANN, EDWARD A.	Asst. Eng. Cincinnati, Indianapolis, St. Louis & Chicago Ry., 80 East New York st., Indianapolis, Ind.	April 6, 1887
HERMANN, CHARLES	Ch. Eng. and Supt. Water Works, 549 Third st., Louisville, Ky.	Jan. 6, 1869
HERSCHEL, CLEMENS	Hydr. Eng. Holyoke Water Power Co., Holyoke, Mass.	Jan. 21, 1869
HEUER, WILLIAM H.	Major Corps Engs. U. S. A., Room 89, Flood Bldg., San Francisco, Cal.	April 21, 1869
HEWITT, CHARLES E.	Eng. N. J. Steel and Iron Co., Trenton, N. J.	March 3, 1880
HIDER, ARTHUR	U. S. Asst. Eng., Res. Eng. in charge of improvements Lake Providence Reach, Miss., Wilson's Point, La.	Oct. 5, 1887
HILBERT, HELIODORE J.	City Treasurer, 335 Hanover st., Mil- waukee, Wis.	Sept. 7, 1881
HILGARD, JULIUS E.	1349 L st., Washington, D. C.	April 1, 1885
		July 10, 1872

Name.	Address.	Date of Membership.
HILL, ALBERT B.	City Eng., New Haven, Conn.	{ J. Feb. 2, 1876 M. March 5, 1884
HILL, JOHN W.	Cons. Eng., Fifth and Race sts., Room 21-22, Cincinnati, O.	{ J. Feb. 3, 1875 M. April 5, 1876
HILL, WARREN E.	Vice-Pres. The Continental Iron Works, Greenpoint, N. Y.	May 7, 1873
HILLMAN, CHARLES F.	Civil Eng., Box 185, Santiago, Chili.	July 5, 1876
HILTON, GEORGE P.	Eng. Hilton Bridge Cons. Co., Albany, N. Y.	May 1, 1889
HINCKLEY, HOWARD V.	Office Eng. Atchison, Topeka & Santa Fé R. R., Topeka, Kansas.	Dec. 5, 1883
HINCKLEY, JOHN F.	Ch. Eng. St. Louis, Arkansas & Texas Ry., 2017 Rutgers st., St. Louis, Mo.	May 6, 1885
HOAG, SIDNEY W., JR	1718 Madison ave., New York City.	Sept. 2, 1885
HODGDON, FRANK W.	Asst. Eng. Mass Harbor and Land Commission, 65 Bowdoin st., Bos- ton, Mass.	Dec. 3, 1884
HODGES, ARTHUR	Ch. Eng. Johnson Co., Johnstown, Pa.	May 2, 1888
HOFF, OLAF	25 and 26 Tribune Bldg., Minneapolis, Minn.	May 6, 1885
HOLBROOK, FRED. W. D.	Prin. Asst. Eng. Seattle, Lake Shore & Eastern Ry., Seattle, Wash.	Oct. 6, 1886
HOLMAN, MINARD L.	Water Commr., 3744 Finney ave., St. Louis, Mo.	April 2, 1884
HOLT, HERBERT S.	Sherbrooke, Quebec, Canada.	March 6, 1889
HOOD, WILLIAM	Ch. Eng. Southern Pacific Co., Pacific System, San Francisco, Cal.	Sept. 6, 1876
HOOVER, JOSEPH W.	Cor. Broadway and Ninth st., Kansas City, Mo.	June 6, 1888
HORTON, HORACE E.	Bridge Builder, Rochester, Minn.	Sept. 6, 1882
HOUSE, BRUCE F.	Asst. Eng. San Antonio & Aransas Pass Ry., Fredericksburg, Texas	April 4, 1888
HOUSTON, JOHN	1659 Lexington ave., New York City.	May 6, 1868
HOWARD, FREDERICK B.	Room 41, Newberry & McMillan } Bldg., Detroit, Mich. } M. Nov. 6, 1878	March 3, 1875
HOWE, EDWARD W.	Asst. Eng. in chg. Park Construction, City Engineer's Office, Boston, Mass.	Sept. 7, 1887
HOWE, MILTON G.	Receiver Houston, East & West Texas Ry., Houston, Tex.	Oct. 16, 1872
HOWELL, GEORGE W.	Lock Box 58, Morristown, N. J.	May 2, 1888
HOWLAND, ARTHUR H.	71 Equitable Bldg., Boston, Mass.	June 2, 1886
HOXIE, R. L.	Capt. Corps of Engs. U. S. A., Wil- letts Point, Whitestone P. O., N. Y.	June 2, 1886
HOYT, WILLIAM E.	Ch. Eng. Buffalo, Rochester & Pitts- burgh, R. R., Rochester, N. Y.	March 5, 1884

Name.	Address.	Date of Membership.
HUDSON, JOHN R.	Pomona, Los Angeles Co., Cal.	May 4, 1887
HUGHES, WILLIAM M.	Asst. Gen. Man. Keystone Bridge Co., Pittsburgh, Pa.	June 2, 1880
HUMPHREYS, DAVID C.	Prof. Applied Mathematics, Washington & Lee University, Lexington, Va.	Nov. 2, 1887
HUNT, ALFRED E.	(Hunt and Clapp.) 95 Fifth ave., Pittsburgh, Pa.	Sept. 1, 1886
HUNT, CHARLES W.	New Rochelle, N. Y.	Jan. 2, 1884
HUNT, RANDELL	Ch. Eng. San Francisco Contracting Co., 6 California st., San Francisco, Cal.	May 2, 1883
HUNT, ROBERT W.	Robert W. Hunt & Co., Bureau of Inspection, etc., The Rookery Bldg., Chicago, Ill.	June 3, 1885
HUSON, HERBERT S.	Prin. Asst. Eng. Northern Pacific R. R., Tacoma, Wash.	June 2, 1886
HUTTON, WILLIAM R.	Cons. Eng., 35 Broadway, Room 112, New York City.	Jan. 8, 1873
IVES, CHAUNCEY	Ch. Eng. Cumberland Valley R. R., Chambersburg, Pa.	June 4, 1884
JACKSON, CHARLES E.	15 Cortlandt st., Room 78, New York City.	June 2, 1886
JACKSON, JONES M.	Ch. Eng. for Godeffroy & How, Contractors Baltimore and Eastern Shore R. R., Easton, Md.	Sept. 1, 1886
JACKSON, LEWIS B.	Ch. Eng., Elgin, Joliet & Eastern Ry., and G. C. C. & N. Ry., Royal Insurance Bldg., Chicago, Ill.	June 6, 1888
JACKSON, WILLIAM	City Eng., City Hall, Boston, Mass.	Sept. 3, 1884
JAMESON, CHARLES D.	State Univ. of Iowa, Iowa City, Iowa.	March 7, 1888
JARVIS, CHARLES M.	Pres. and Ch. Eng. The Berlin Iron Bridge Co., East Berlin, Conn.	Jan. 7, 1885
JAYCOX, THOMAS W.	P. O. Box 189, Leadville, Colo.	Jan. 4, 1882
JENKINS, WILLIAM D.	Cons. and Civil Eng. (Waddell & Jenkins.) Keith and Perry Bldg., Kansas City, Mo.	Sept. 7, 1887
JENNINGS, HENRY C.	Eng. and Contractor, Denver, Colo.	April 6, 1887
JENNINGS, WILLIAM H.	180 Washington ave., Columbus, O.	Sept 5, 1883
JENNINGS, WILLIAM T.	Eng. and Man. Cons. Canadian Pacific Ry., Toronto, Canada.	April 2, 1884
JEWETT, WILLIAM C.	Res. Eng. Cincinnati, New Orleans & Texas Pacific Ry., and Alabama Great Southern R. R., Chattanooga, Tenn.	June 3, 1885
JOHNSON, CHARLES R.	Pres. and Gen. Man. The Johnson R. R. Signal Co., Rahway, N. J.	June 3, 1885

Name.	Address.	Date of Membership.
JOHNSON, JOHN B.	Prof. Civil Eng. Washington University, St. Louis, Mo.	April 7, 1886
JOHNSON, LORENZO M.	Gen. Man. Mexican International Ry. Co., Eagle Pass, Texas.	J. Mar. 3, 1875 M. April 7, 1880
JOHNSON, THOMAS H.	Prin. Asst. Eng. Pittsburgh, Cincinnati & St. Louis Ry., Pittsburgh, Pa.	Sept. 5, 1877
JOHNSTON, HORACE G.	Salina, Kans.	Sept. 7, 1887
JOHNSTON, J. HOWARD	Lima, Peru.	March 1, 1876
JONES, WASHINGTON	Supt. Port Richmond Iron Works, 2257 Richmond st., Philadelphia, Pa.	Oct. 7, 1874
JUDSON, WM. PIERSON	Asst. U. S. Eng., Oswego, N. Y.	Sept. 7, 1881
JUENGST, HENRY F.	St. Joseph Water Co., St. Joseph, Mo	April 2, 1884
KATTÉ, WALTER	(Director.) Ch. Eng. New York Central & Hudson River R. R., Grand Central Station (Residence, 10 W. 37th st.) New York City.	Oct. 7, 1858
KEATING, EDWARD H.	City Eng. and Res. Eng. Halifax Graving Dock, Halifax, N. S.	June 7, 1882
KEEFER, GEORGE A.	Victoria, British Columbia	Jan. 2, 1889
KEEFER, SAMUEL	Brockville, Canada.	Jan. 6, 1869
KEEFER, THOMAS C.	(Past President.) Ottawa, Canada.	April 4, 1877
KEITH, GEORGE T.	Olean, N. Y.	May 4, 1881
KELLEY, HOWARD G.	Res. Eng. Maintenance Way St. Louis, Arkansas and Texas Ry., Texarkana, Texas	May 1, 1889
KELLEY, WILLIAM D., JR.	Special Asst. Eng. New Croton Aqueduct, Tarrytown, N. Y.	Nov. 2, 1887
KELLOGG, CHARLES	Pres. Elmira Bridge Co., Ltd., Elmira, N. Y. (Residence, Athens, Pa.)	June 2, 1880
KELLY, CASSIUS W.	18 City Hall, New Haven, Conn.	J. Mar. 1, 1882 M. June 6, 1888
KELLY, WILLIAM E.	Civil Eng., New Brunswick, N. J.	Feb. 17, 1869
KENDRICK, JOHN W.	Ch. Eng. Northern Pacific R. R., St. Paul, Minn.	June 6, 1883
KENNEDY, JOHN	Ch. Eng. Montreal Harbor Commrs., Montreal, Canada.	Sept. 1, 1875
KENNEDY, WILLIAM H.	Ch. Eng. Oregon Ry., & Navigation Co., Portland, Ore.	Sept. 6, 1871
KIELLAND, S. MUNCH	Asst. Eng. Lehigh Valley R. R., Buffalo, N. Y.	Feb. 6, 1889
KIERSTED, W.	Ch. Eng. The Central Water Works Cons. Co., 509 Baird Bldg., Kansas City, Mo.	Oct. 5, 1887

Name.	Address.	Date of Membership.
KILLEBREW, SAMUEL	Brownsville, Tenn.	Sept. 2, 1885
KIMBALL, FRANCIS W.	Man. of Construction Chicago, Milwaukee & St. Paul Ry., Milwaukee, Wis.	May 2, 1883
KING, FRANK P.	Asst. Ch. Eng. Denver & Rio Grande Ry., 17 Cheesman Block, Denver, Colo.	April 3, 1889
KINGMAN, LEWIS	City Eng., Topeka, Kans.	July 1, 1885
KINGSLEY, MARVIN W.	Asst. Eng. Cleveland Water Works, 354 Superior st., Cleveland, O.	July 3, 1878
KINNEY, EDWARD C.	Asst. to Ch. Eng. Union Pacific Ry., Denver, Colo.	May 3, 1882
KINSLEY, THOMAS P.	421 Warren st., Syracuse, N. Y.	Feb. 5, 1873
KIRTLAND, ALFRED P.	Supt. West Penn. Div. Pennsylvania R. R. Blairsville, Pa.	Sept. 7, 1887
KITREDGE, GEORGE W.	Eng. Maintenance of Way Pittsburgh, Cincinnati & St. Louis Ry. Div. Pennsylvania Lines, west of Pittsburgh; Eng. Union Depot Co., Columbus, Ohio. Address: Pittsburgh, Pa.	Jan. 6, 1886
KNAP, JOSEPH M.	365 West st., New York City.	April 5, 1882
KNAPP, LOUIS H.	Supt. Buffalo Water Works, 280 Linwood ave., Buffalo, N. Y.	March 4, 1874
KNIGHT, WILLIAM B.	Civil Eng., Kansas City, Mo.	{ J. Jan. 6, 1875
		{ M. Jan. 7, 1880
KUICHLING, EMIL	Cons. Eng., 29 and 30 Rochester Savings Bank Bldg., Rochester, N. Y.	Sept. 3, 1884
LAFON, THOMAS	Columbia, Mo.	{ J. March 3, 1875
		{ M. Nov. 5, 1884
LANDOR, EDWARD J.	Vice-Pres. and Eng. Wrought Iron Bridge Co., 127 N. Poplar st., Canton, Ohio.	March 7, 1888
LANDRETH, OLIN H.	Prof. of Engineering Vanderbilt University and Cons. Eng., Nashville, Tenn.	Sept. 3, 1884
LANDRETH, WILLIAM B.	Constr. Eng., Sewer Commrs., Amsterdam, N. Y.	Oct. 3, 1888
LASSIG, MORITZ	97 Dearborn st., Room 5, Chicago, Ill.	April 2, 1884
LATCHA, JACOB A.	Ch. Eng. and Supt. Cons. Duluth, South Shore & Atlantic Ry., Marquette, Mich.	May 7, 1873
LATHAM, HARRY H.	Cons. Eng. and Manufr. Machinery, 304 and 306 Dearborn st., Chicago, Ill.	Dec. 2, 1885

Name.	Address.	Date of Membership.
LATROBE, CHARLES H.	Civil and Cons. Eng., Gen. Supt. and Eng. Public Parks, 213 German st., Baltimore, Md.	Nov. 16, 1870
LAWTON, WILLIAM H., JR.	Street Commr. and Surveyor of Highways. Newport, R. I.	June 2, 1886
LEAVITT, ERASMUS D.	Mech. Eng., 2 Central sq., Cambridgeport, Mass.	July 2, 1873
LEAVITT, FRANK M.	Vice-Pres. E. W. Bliss Co., 17 Adams st., Brooklyn, N. Y.	Dec. 2, 1885
LE BARON, J. FRANCIS	First Asst. Eng. in chge. Expedition, Nicaragua Canal Cons. Co., Greytown, Nicaragua, Cent. America.	June 7, 1882
LE CONTE, LOUIS J.	Asst. U. S. Eng. in chg. Oakland Harbour Works, P. O. Box 358, Oakland, Cal.	April 4, 1877
LEDLIE, CHARLES H.	Cons. Eng., 417 Olive st., St Louis, Mo.	Jan. 4, 1888
LEDERLE, GEORGE A.	(Care Oregon Ry., and Navigation Co.), Riparia, Wash	J. May 2, 1883 M. Oct. 6, 1886
LEERS, FRANK A.	Eng. Passaic Rolling Mill, Paterson, N. J.	May 4, 1887
LEHLBACH, GUSTAV	770 Broad st., Newark, N. J.	March 7, 1883
LEHNARTZ, FREDERICK W.	U. S. Asst Eng., Grand Rapids, Mich.	Aug. 6, 1879
LEVERICH, GABRIEL	41 Nassau st., Brooklyn, N. Y. (Residence, Maplewood, N. J.)	July 6, 1870
LEWIS, EUGENE C.	Pres. Sycamore Powder Co., Nashville, Tenn.	March 5, 1873
LEWIS, EVERETT W.	City Engrs. Office, Duluth, Minn.	May 2, 1888
LEWIS, SIDNEY F.	Asst. State Eng., 289 Royal st., New Orleans, La.	May 4, 1881
LIBBY, EDMUND D.	N. E. cor. Eleventh and Orange sts., Wilmington, Del	May 6, 1885
LIGHT, ALEXANDER L.	Ch. Eng. Govt Rys. Province of Quebec, Quebec, Canada.	Sept. 7, 1881
LINCOLN, WILLIAM S.	Ch. Eng. Wabash Western Ry., St Louis, Mo.	Dec. 5, 1883
LINDENTHAL, GUSTAV	Civil Eng., Lewis Block, Pittsburgh, Pa.	May 3, 1882
LINVILLE, JACOB H.	Cons. Eng., 3610 Walnut st., Philadelphia, Pa.	May 3, 1875
LOCKE, AUGUSTUS W.	North Adams, Mass.	June 7, 1882
LOCKE, CHARLES A.	Asst. Eng. Nashville, Tenn.	Oct. 3, 1888
LONG, THOMAS J.	(Care Union Bridge Co.) 1 Broad-way, New York City.	J. Nov. 2, 1875 M. Jan. 7, 1880
LOOMIS, HORACE	Eng.-in-chg. Sewers, Dept. of Public Works, 31 Chambers st., New York City.	Nov. 5, 1879

Name.	Address.	Date of Membership.
LOREE, LEONOR F.	Eng. Maintenance of Way C. & P. Div. Pennsylvania Co., Wellsville, Ohio.	Oct. 6, 1886
LOTZ, WILLIAM H.	Mech. Eng. 68 Metropolitan Block, Chicago, Ill.	Sept. 1, 1875
LOVETT, THOMAS D.	Cons. Eng., 49 West Third st., Cincin- nati, Ohio.	May 3, 1871
LOW, EMILE	Div. Eng. Clinch Valley Div. Norfolk & Western R. R., Tazewell, C. H., Va.	May 2, 1888
LOW, GORHAM P.	Gloucester, Mass.	April 21, 1869
LOWETH, CHARLES F.	560 Drake Block, St. Paul, Minn.	{ J. Jan. 3, 1883 { M. Feb. 6, 1884
LUCAS, D. JONES	(Care Am. Soc. C. E.) 127 East Twenty-third, New York City.	{ J. Sept. 6, 1876 { M. July 4, 1888
LUCIUS, ALBERT	Civil Eng., 71 Broadway. New York City.	March 3, 1886
LUDLOW, WILLIAM	Maj. of Engrs. Bvt. Lt.-Col. U. S. A., Detroit, Mich.	July 5, 1882
LUNDIE, JOHN	Asst. City Eng., City Hall, Chicago, Ill.	July 4, 1888
LUTZ, ULYSSES S.	Holmesburg, 23d Ward, Philadelphia, Pa.	July 6, 1887
MACDONALD, CHARLES	Union Bridge Co., 1 Broadway, New York City.	Sept. 15, 1869
MACFARLANE, JAMES	Anaconda, Montana.	April 4, 1888
MACKENZIE, ALEXANDER	Maj. Corps of Engrs. U. S. A., Rock Island, Ill.	Feb. 2, 1887
MACKLIN, JOHN G.	Ch. Eng. Midland Div. Grand Trunk Ry., Peterborough, Ont., Canada.	May 4, 1887
MACLAY, WILLIAM W.	Supt. Dept. of Docks, office foot of Chambers st., North River (Resi- dence, 24 West 120th st.) New York City.	Nov. 6, 1872
MACLEOD, JOHN	Ch. Eng. Kentucky & Indiana Bridge and Belt Ry.; Ch. Eng. Louisville Southern Ry. (Residence, 1205 Sec- ond st.) Louisville, Ky.	July 10, 1872
MACNAUGHTON, JAMES	248 State st., Albany, N. Y.	May 5, 1880
MACRITCHIE, CHARLES	171 La Salle st., Chicago, Ill.	April 5, 1876
MACY, ARTHUR	32 Liberty st., New York City.	{ J. July 12, 1877 { M. Dec. 2, 1885
MAGUIRE, EDWARD	Capt. Corps of Engrs. U. S. A., Fourth floor, Room 20, P. O. Bldg., Phila- delphia, Pa.	Sept. 5, 1888
MAIS, HENRY C.	Cons. Eng., 61 Queen st., Melbourne, Victoria, Australia.	June 6, 1883
MALLORY, GEORGE B.	55 Broadway, New York City.	Sept. 3, 1884

Name.	Address.	Date of Membership.
MAN, ALBON P., Jr.	Gen. Man. and Acting Ch. Eng. Silver Springs, Ocala & Gulf R. R., Ocala, Fla.	Sept. 5, 1883
MANLEY, HENRY	Asst. Eng. City Engineer Dept., Boston, Mass.	June 2, 1880
MANN, GEORGE E.	City Eng., City Hall, Buffalo, N. Y.	Sept. 3, 1884
MANSFIELD, M. W.	Supt. Indianapolis & Vincennes R.R., Indianapolis, Ind.	July 5, 1882
MANSON, MARSDEN	Ch. Eng. Board of Harbor Com., 10 California st., San Francisco, Cal.	Sept. 6, 1882
MARINDIN, HENRY L.	Asst. U. S. Coast and Geodetic Survey, Washington, D. C.	May 7, 1884
MARR, GEORGE A.	U. S. Asst. Eng., U. S. Eng. Office, 1415 Washington ave., St. Louis, Mo.	Oct. 3, 1883
MARSLAND, EDWARD	U. S. Local Inspector of Steam Vessels, Room 156, P. O. Building, New York City.	Feb. 6 1878
MARTIN, CHARLES C.	Ch. Eng. and Supt. New York and Brooklyn Bridge, 179 Washington st., Brooklyn, N. Y.	July 10, 1872
MASON, ARTHUR J.	1423 Jefferson st., Kansas City, Mo.	Sept. 5, 1888
MASON, SAMPSON D.	Prin. Asst. Eng. Northern Pacific R. R., St. Paul, Minn.	Oct. 6, 1886
MASTEN, CORNELIUS S.	Vice-Pres. and Man. Maricopa & Phoenix R. R., Phoenix, Ariz.	Sept. 6, 1871
MAURICE, CHARLES S.	Union Bridge Co., Athens, Pa.	May 15, 1872
MAXIM, HIRAM S.	Man. Director Maxim Gun Co., Crayford, Kent, England.	Oct. 7, 1885
MAXSON, FRANK O.	Civil Eng. U. S. N., 647 E. Capitol st., Washington, D. C.	May 1, 1889
MAXWELL, DAVID F.	Ch. Eng. New Brunswick Govt. Rys., St. Stephen, N. B., Canada.	March 2, 1887
MAXWELL, JAMES R.	Newark, Delaware.	April 17, 1872
MAY, WILLIAM A.	Supt. Hillside Coal & Iron Co., Drawer U, Scranton, Pa.	July 6, 1881
MCCCLINTOCK, WILLIAM E.	City Eng. Chelsea, Mass.	Dec. 5, 1888
MCCCLINTOCK, WILLIAM H.	Supt. Columbus & Western Div. Central R. R. & Banking Co. of Georgia, Columbus, Ga.	April 5, 1876
MCCCLURE, ROBERT J.	(Care Chicago Burlington & Quincy R. R.) Chicago, Ill.	Oct. 6, 1886
MCCCLURE, WILBUR F.	Ch. Eng. Los Angeles, Pasadena & Glendale Ry., U. S. Dep. Mineral Surveyor, Garvanza, Cal.	Nov. 3, 1886

Name.	Address.	Date of Membership.
McCOLLUM, THOMAS C.	Civil Eng. U. S. N., U. S. Navy Yard, New York.	May 3, 1882
McCOMB, DAVID E.	Asst. Eng. District Government, Washington, D. C.	Feb. 7, 1877
McCOOL, DANIEL	Gen. Man. California Southern R. R. and California Central Ry., Los Angeles, Cal.	Sept. 5, 1884
MCDONALD, HARRY P.	(McDonald Bros Architects,) 41 and 44 Bull Block, Louisville, Ky.	March 5, 1884
MCDONALD, HUNTER	Asst. Eng. Nashville Chattanooga & St Louis Ry., Lewisburg, Tenn.	J. April 4, 1883 M. March 7, 1888
McDOWELL, NATHAN M.	Civil Eng. Allegheny City, Pa.	April 4, 1877
McGRATH, WALLACE	Topeka, Kans	Sept. 5, 1883
McKEE, CHARLES H.	Asst. Eng. New York Central & Hudson River R. R., Buffalo, N. Y.	June 4, 1879
McKEE, SAMUEL B.	Asst. Eng. Ontario, Carbondale & Scranton Ry., Hancock, N. Y.	June 2, 1886
McKENZIE, THEODORE H.	Secy. and Treas. Southington Water Co.; Ch. Eng. Naugatuck Water Works, Southington, Conn.	Sept. 7, 1881
McKEOWN, THOMAS	37 City road, London, E. C., England.	Dec. 3, 1879
McLAIN, LOUIS R.	Contractor for Alabama Midland Ry. Ozark, Ala	Feb. 2, 1881
McMATH, ROBERT E.	(Director.) Sewer Com., City Hall, St. Louis, Mo.	March 3, 1880
McMILLAN, CHARLES	Prof. of Engineering, College of New Jersey, Princeton, N. J.	Jan. 29, 1868
McNAIR, THOMAS S.	Res. Eng. Lehigh Valley R. R., Hazelton, Pa.	July 2, 1873
McNULTY, GEORGE W.	53 Broadway, New York City.	May 5, 1880
McVEAN, JOHN J.	Ch. Eng. Detroit, Lansing & Northern R. R. and Chicago & West Michigan Ry., Ionia, Mich.	Sept. 3, 1884
MEIER, EDWARD D.	Pres. and Ch. Eng. Heine Safety Boiler Co., 102 North Main st., St. Louis, Mo.	Feb. 4, 1880
MEIGS, MONTGOMERY	U. S. Civil Eng. (in charge Des Moines Rapids Canal), Keokuk, Ia	March 5, 1879
MELVIN, DAVID N.	Linoleumville, Richmond Co., N. Y.	June 3, 1878
MENDELL, GEORGE H.	Col. Corps of Engs., Bvt. Col. U.S.A., San Francisco, Cal.	Sept. 6, 1876
MENOCAL, ANICETO G.	Civil Eng. U. S. N., Ch. Eng. Nicaragua Canal Cons. Co., 2012 Hillyer place, Washington, D. C.	Feb. 3, 1875
MERIWETHER, NILES	City Eng., 14 Talbot st., Memphis, Tenn.	Nov. 1, 1871

Name.	Address.	Date of Membership.
MERRILL, GEORGE N.	Res. Eng. Poughkeepsie & Connecticut R. R., 143 Catherine st., Springfield, Mass.	May 1, 1889
MERRILL, WILLIAM E.	Lt.-Col. Corps of Eng. U. S. A., Custom House, Cincinnati, Ohio.	Oct 16, 1872
MERRILL, WILLIAM F.	Gen. Man. Hannibal & St. Joseph R. R. and Kansas City, St. Joseph & Council Bluffs R. R., St. Joseph, Mo.	April 1, 1874
MERRIMAN, MANSFIELD	Prof. of Civil Engineering, Lehigh University, Bethlehem, Pa.	May 12, 1875
MERSEREAU, CHARLES V.	Asst Eng. St. Louis Water Works Extension, St. Louis, Mo.	Sept. 3, 1884
METCALF, WILLIAM	Crescent Steel Works, 136 First ave., Pittsburgh, Pa.	Dec. 3, 1884
MEYER, THOMAS C.	13 Waverley pl., New York City.	July 2, 1874
MICHAELIS, OTHO E.	Maj. Ordnance Corps U. S. A., Kennebec Arsenal, Augusta, Maine.	Dec 7, 1882
MILLER, ALEXANDER M.	Maj. Corps of Eng. U. S. A., St. Louis, Mo.	May 6, 1874
MILLER, HARRY I.	Maj. Corps of Eng. U. S. A., St. Louis, Mo.	June 6, 1888
MILLER, J. IMBRIE	Supt. Southern Div. Chicago, St. Louis & Pittsburgh R. R., Richmond, Ind.	Supt. Southern Div. Chicago, St. Louis & Pittsburgh R. R., Richmond, Ind. May 2, 1888
MILLER, REUBEN	3925 Walnut st., Philadelphia, Pa.	Oct 5, 1887
MILLER, SAMUEL H.	Crescent Steel Works, 136 First ave., Pittsburgh, Pa.	Sept. 1, 1875
MILLER, SILVANUS	Ch. Eng. Chicago & Eastern Illinois R. R., Danville, Ill.	Sept. 6, 1882
MILLS, ARTHUR L.	Supt. Chinamit Mine, Las Quebradas, Isabal, Guatemala, Central America.	March 2, 1887
MILLS, JAMES E.	Ch. Eng. Toledo, St. Louis and Kansas City Ry., Toledo, Ohio.	May 2, 1888
MINTURN, ROWLAND R.	Cons. Geologist and Mining Eng., 2106 Van Ness Ave., San Francisco, Cal.	Feb. 3, 1886
MITCHELL, HENRY	Shoreham, Addison Co. Vt.	Nov. 2, 1887
MONROE, J. ALBERT	18 Hawthorne st., Roxbury, Mass.	Jan. 7, 1880
MONTFORT, RICHARD	New London, Conn.	Sept. 15, 1869
MOORE, CHARLES E.	Ch. Eng. Louisville and Nashville R. R., Louisville, Ky.	June 6, 1888
MOORE, JAMES	Civil Eng., Santa Clara, Cal.	Jan. 7, 1880
MOORE, ROBERT	Cons. Eng. Central R. R. of New Jersey, Elizabeth, N. J.	Dec. 4, 1867
MORISON, GEORGE S.	Ch. Eng. St. Louis Merchants Bridge Terminal Ry., Laeledge Bldg., Room 52, St. Louis, Mo.	April 5, 1876
MORLEY, JAMES H.	205 La Salle st., Chicago, Ill.	Jan. 6, 1875
	Room 7, Temple Bldg., St. Louis, Mo.	Oct. 6, 1886

Name.	Address.	Date of Membership.
MORRILL, GEORGE S.	Ch. Eng. Old Colony R. R., Boston, Mass.	March 2, 1887
MORRIS, CHARLES J. A.	555 Drake Block, (P. O. Box 2544) St. Paul, Minn.	Oct. 3, 1883
MORRIS, GOUVERNEUR	Getty House, Yonkers, N. Y.	Oct. 3, 1888
MORRIS, HENRY G.	Eng. and Machinist, 926 Drexel Bldg., Philadelphia, Pa.	Dec 4, 1867
MORRIS, MARSHALL	530 W. Walnut st., Louisville, Ky.	March 5, 1873
MORRIS, ROBERT C.	Ch. Eng. Nashville, Chattanooga & St. Louis R. R., Nashville, Tenn.	Jan. 7, 1874
MORRIS, S. FISHER	Div. Eng. New Croton Aqueduct, Box 790, Yonkers, N. Y.	April 6, 1887
MORRIS, THOMAS O.	Eng. Maintenance Way, Cincinnati, Indianapolis, St. Louis & Chicago Ry., Indianapolis, Ind.	Oct. 6, 1886
MORSE, BENJAMIN F.	Civil and Cons. Eng and Architect, Room 4, Society for Savings Bank, 2d story, Cleveland, Ohio.	July 12, 1877
MORSE, CHARLES J.	Youngstown, Ohio.	Feb. 6, 1884
MORSE, HENRY G.	Pres. Edge Moor Bridge Works, Edge Moor, Del	April 7, 1880
MORSS, FOSTER	Red Falls, Greene Co., N. Y.	Nov. 6, 1872
MOSMAN, ALONZO T.	U. S. Coast and Geodetic Survey, Washington, D. C.	July 1, 1885
MOULTON, MACE	Cons. Eng. Berlin Iron Bridge Co., East Berlin, Conn.	June 4, 1884
MOYLAN, JAMES	Civil Eng. 330 Palisade ave, Jersey City, N. J.	Nov. 2, 1887
MÜNSTER, A.	City Engrs. office, St. Paul, Minn.	May 1, 1889
MURDOCH, GILBERT	Supt. Water Works, St. John, New Brunswick.	Sept. 7, 1881
MYERS, CHARLES H.	2775 Third ave., New York City.	Aug. 5, 1868
MYERS, EDMUND D. T.	Gen. Supt. Richmond, Fredericksburg & Potomac R. R., Richmond, Va.	May 2, 1888
NASH, CHARLES H.	Bloomfield, N. J.	Sept. 5, 1888
NEILSON, CHARLES	Gen. Supt. Cincinnati, Hamilton & Dayton R. R., Cincinnati, Ohio.	Jan. 7, 1880
NEILSON, ROBERT	Gen. Supt. P. & E. Div. Penn. R. R. and Northern Central Ry., Williamsport, Pa.	Feb. 17, 1869
NELLES, GEORGE T.	Civil and Cons. Eng., Room 16, Chamber of Commerce, Omaha, Neb.	Oct. 3, 1888
NEWELL, JOHN	Pres. and Gen. Man. Lake Shore & Michigan Southern Ry., 348 Ontario st., Chicago, Ill.	Jan. 29, 1868

Name.	Address.	Date of Membership.
NEWHAM, CHARLES E.	(Culver and Newham, Civil Engrs.) 145 Broadway, New York City.	Dec. 7, 1887
NEWMAN, ROBERT M.	415 W. Franklin st., Jackson, Mich.	May 6, 1874
NEXSEN, ELBERT	1620 Fourth st., S. E., Minneapolis, Minn.	Dec. 5, 1883
NICHOL, JOHN	171 La Salle st., Chicago, Ill.	April 5, 1876
NICHOLS, OTHNIEL F.	Ch. Eng. Union and Brooklyn Ele- vated Ry., 31 Sands st., Brooklyn, N. Y.	June 7, 1876
NICHOLS, NORMAN J.	Eng. "Las Brujas" Gold Mining Co., Honda, Republic of Colombia.	Dec. 5, 1888
NICHOLS, WILLARD A.	First Asst. Eng. Dept. of Docks, Pier A, North River, New York City.	May 7, 1873
NICHOLSON, GEORGE B.	Ch. Eng. Cincinnati, New Orleans & Texas Pacific Ry., 530 Garrard st., Covington, Ky.	May 1, 1878
NICOLLS, WILLIAM J.	Treas. Irvona Coal Co., 216 South Third st., Philadelphia, Pa.	June 5, 1878
NOBLE, ALFRED	Memphis, Tenn.	} J. Sept. 2, 1874 { M. April 3, 1878
NORMAN, GEORGE H.	Newport, R. I.	Feb. 19, 1869
NORTH, EDWARD P.	(Care Am. Soc. C. E.) 127 East Twenty-third st., New York City.	Dec. 4, 1867
NOURSE, EDWIN G.	Asst. Eng. Maintenance of Way, Chicago, Santa Fé, & California Ry. Rialto Bldg., Room 612, Chicago, Ill.	Sept. 3, 1884
NOYES, ALBERT F.	City Engineer, West Newton, Mass.	Dec. 3, 1884
OCKERSON, JOHN A.	Vice-Pres. and Man. Silver Age Min- ing & Milling Co., Idaho Springs, Colo.	July 7, 1880
ODELL, FREDERICK S.	15th ave., Mt. Vernon, N. Y.	March 5, 1884
O'HANLY, JOHN L. P.	Ch. Eng. Ontario Pacific Ry., Ottawa, Ontario, Canada.	Sept. 5, 1883
OLNEY, GEORGE R.	Asst. Eng. New Croton Aqueduct, Yonkers, N. Y.	March 7, 1888
OLNEY, LAFAYETTE	Middletown, N. Y.	Oct. 7, 1868
OPDYKE, STACY B., JR.	Gen. Supt. Hartford & Connecticut Western R. R., Hartford, Conn.	Feb. 2, 1876
ORBISON, THOMAS W.	Appleton, Wis.	Sept. 3, 1884
O'ROURKE, JOHN F.	Eng. of Dawson, Symmes & Usher, Contractors Chignecto Marine Transport Ry., Amherst, N. S.	April 2, 1884
OSBOEN, FRANK C.	Eng. King Iron Bridge and Mfg. Co., Cleveland, Ohio.	Oct. 3, 1888

Name.	Address.	Date of Membership.
OSGOOD, JOSEPH O.	Cons. Eng., 120 Broadway, New York City.	J. May 3, 1876
		M. March 5, 1879
OWEN, FREDERICK N.	13 William st., New York City.	Sept. 7, 1887
OWEN, JAMES	721 Broad st., Newark, N. J.	Sept. 15, 1869
PACKARD, RALPH G.	Pres. and Gen. Man. Atlantic Dredging Co., 34 Pine st., New York City. (Residence, Morristown, N. J.)	Feb. 17, 1869
PAINE, ARTHUR B.	Ch. Eng. Manhattan Bridge Bldg. Co., Nelson House, Poughkeepsie, N. Y.	Sept. 6, 1882
PAINE, CHARLES	(Past President.) Vice-Pres. Philadelphia Co., 820 Penn. ave., Pittsburgh, Pa.	Dec. 4, 1867
PAINE, WILLIAM H.	Cons. and Constr. Eng. 102 Broadway, New York City.	May 12, 1875
PALMER, CORNELIUS	Supt. Bridges and Bldgs. Peninsula Div. Chicago & Northwestern Ry., Escanaba, Mich.	Nov. 2, 1887
PARENT, ETIENNE H.	Supt. Eng. of Canals, 27 Common st., Montreal, Canada.	Sept. 7, 1881
PARET, MILNOR P.	U. S. Resident Eng., Fernandina, Fla.	Sept. 2, 1885
PARKER, ANDREW McC.	Asst. Eng. Dept. Docks, Pier A, North River, New York City.	March 6, 1889
PARKHURST, HENRY W.	Res. Eng. St. Louis Merchants Bridge, 64 Laclede Bldg., St. Louis, Mo.	Sept. 5, 1877
PARSONS, HENRY C.	State Engineer's Office, Albany, N. Y.	Oct. 6, 1886
PARSONS, WM. BARCLAY	Civil Eng., 35 Broadway, New York City.	J. June 7, 1882
		M. Nov. 2, 1887
PARTRIDGE, JOHN A.	315 4½ st., N. W., Washington, D. C.	Sept. 6, 1882
PATTEN, HENRY B.	Div. Eng. Union Pacific R. R., Cheyenne, Wyo.	Jan. 4, 1888
PEARL, JAMES W.	Prin. Asst. Eng. Wrought Iron Bridge Co., Canton, Ohio.	Jan. 2, 1889
PEARSONS, GALEN W.	Kansas City, Mo.	Jan. 6, 1875
PEARY, ROBERT E.	Civil Eng. U. S. N., U. S. Navy Yard, League Island, Pa.	March 3, 1886
PEGRAM, GEORGE H.	Cons. Eng., 18 Broadway, New York City.	J. April 7, 1880
		M. Jan. 3, 1883
PERKINS, CHARLES P.	Real Estate Department, Penn. R. R., 233 South Fourth st., Philadelphia, Pa.	J. Feb. 3, 1875
		M. April 5, 1882
PETERSON, P. ALEX.	Cons. Eng. Canadian Pacific Ry., Montreal, Canada.	Jan. 5, 1876
PETRY, ALFRED	Res. Eng. New Water Works, Room 2, First National Bank Bldg., Covington, Ky.	Oct. 6, 1886

Name.	Address.	Date of Membership.
PETTIT, ROBERT E.	Gen. Supt. P. R. R. Div. Penn. R. R. Altoona, Pa.	Nov. 1, 1876
PICKETT, WILLIAM D.	Mee-tee-tse, Wyoming.	July 6, 1853
PLAYLE, EDWARD F.	Asst. Eng. New Croton Aqueduct, Hotel Winthrop, Seventh ave. and 125th st., New York City.	Nov. 2, 1887
PLYMPTON, GEORGE W.	Prof. Physical Science, Brooklyn Col- legiate and Polytechnic Inst. (Resi- dence, 127 Herkimer st.) Brooklyn, N. Y.	Jan. 29, 1868
POE, ORLANDO M.	Col. Corps of Engs., Bvt. Brig.-Gen., U. S. A., 34 West Congress st., Detroit, Mich.	Jan. 8, 1873
POETSCH, CHARLES J.	Asst. City Eng., Milwaukee, Wis.	{ J. May 4, 1881 M. May 2, 1883
POPE, WILLARD S.	Pres. Detroit Bridge and Iron Works, Detroit, Mich.	Aug. 7, 1872
PORTER, ALBERT H.	King Iron Bridge and Mfg. Co., Cleve- land, Ohio.	March 6, 1889
POST, ANDREW J.	Office 102 Broadway, New York City. (Residence, 136 Magnolia ave., Jer- sey City, N. J.)	Nov. 1, 1871
POST, JAMES C.	Maj. Corps of Engs. U. S. A. (Care U. S. Legation), London, England.	Feb. 6, 1878
POST, LEVI W.	28 Merritts ave., Atlanta, Ga.	March 5, 1873
POTT, JOHN N.	Min. Eng. Wyoming Div. L. & W. B. Coal Co., Wilkes-Barre, Pa.	April 3, 1889
POTTER, HENRY W.	Calle San Juan de Letran 4, Apartado de Correo 198, Mexico, Mexico.	Dec. 5, 1888
POTTS, JOSEPH D.	Pres. Enterprise Transit Co., 234 South Fourth st., Philadelphia, Pa.	Aug. 5, 1868
POTTS, RICHARD	Div. Eng. Bureau of Sewers, City Hall, Chicago, Ill.	June 1, 1870
POU, ARTHUR	Civil Eng., Talbotton, Ga.	Dec. 2, 1885
POWELL, CHARLES F.	Capt. Corps of Engs. U. S. A., 2732 Pine st., St. Louis, Mo.	Oct. 3, 1888
PRATT, WILLIAM A.	Eng. Maintenance Way, Philadelphia, Div. Baltimore & Ohio R. R., Cor. 24th and Chestnut sts., Philadel- phia, Pa. (Residence, 1419 Harrison st., Wilmington, Del.)	July 5, 1882
PRENDERGAST, FRANCIS E.	Res. Eng. St. Mary's Falls Water Power Co., Sault Ste. Marie, Mich.	March 7, 1888
PREVOST, SUTHERLAND M.	Gen. Supt. Transportation Penn. R. R., 233 South Fourth st., Phila- delphia, Pa.	Jan. 6, 1875

Name.	Address.	Date of Membership.
PRICE, PHILIP M.	Capt. Corps Engs. U. S. A., Montgomery, Ala.	May 2, 1888
PRINCE, EDWARD	Quincy, Ill.	{ J. Feb. 6, 1878 { M. Nov. 1, 1882
PRINDLE, FRANKLIN C.	Civ. Eng. U. S. N., Ch. Eng. and Supt. Carolina Oil and Creosote Co., Wilmington, N. C.	March 4, 1874
PRIOR, CHARLES H.	Asst. Gen. Supt. Chicago, Milwaukee, & St. Paul Ry., Minneapolis, Minn.	March 1, 1882
PROBASCO, SAMUEL R.	179 Washington st., Brooklyn, N. Y.	Nov. 18, 1868
PROUT, HENRY G.	Editor <i>Railroad Gazette</i> , 73 Broadway, New York City.	{ A. Nov. 6, 1872 { M. Sept. 3, 1879
PURDON, CHARLES D.	Res. Eng. Cumberland Valley Branch L. & N. R. R., Pineville, Ky.	March 3, 1886
QUINTUS, JOHN C.	Erie, Pa.	Jan. 2, 1889
RADENHURST, WILLIAM N.	Asst. Eng. Rochester Water Works; Rochester, N. Y.	{ J. July 7, 1875 { M. July 7, 1880
RAFTER, GEORGE W.	Civil and San. Eng., 32 City Hall, Rochester, N. Y.	April 2, 1884
RANDOLPH, BEVERLEY S.	Mining Supt. Consolidation Coal Co., Frostburg, Md.	May 2, 1888
RAY, NATHANIEL C.	(Ray and Moulthrop.) Butte City, Mont.	July 5, 1882
RAYMOND, CHARLES WARD	Cons. and Contr. Electrical and Civil Eng., 39 Dearborn st., Chicago, Ill.	{ J. Nov. 7, 1877 { M. April 7, 1886
REA, SAMUEL	Asst. to Second Vice-Pres. Penn. R. R., 233 South Fourth st., Philadelphia, Pa.	June 4, 1884
READ, ROBERT L.	Civil Eng., 49 West Third st., Cincinnati, O.	Sept. 2, 1874
REECE, BENJAMIN	Eng. M. S. Div. Lake Shore and Michigan Southern R. R. Toledo, O.	March 2, 1881
REED, EDWARD M.	Vice-Pres. New York, New Haven & Hartford R. R., New Haven, Conn.	July 10, 1872
REED, HENRY W.,	Mast. of Roadway, Savannah, Florida & Western Ry., Way Cross, Ga.	Jan. 6, 1886
REED, HORATIO G. H.	Cons. Ch. Eng. Milwaukee, Lake Shore & Western R. R., Lindenwood Farm, Oshkosh, Wis.	Oct. 7, 1874
REED, SAMUEL B.	Civil Eng., Joliet, Ill.	Oct. 20, 1869
REEVÈS, DAVID	Pres. The Phoenix Iron Co., 410 Walnut st., Philadelphia, Pa.	{ J. April 1, 1874 { M. May 3, 1882

Name.	Address.	Date of Membership.
RHODES, BENJAMIN	Man. Brush Electric Light Co., Niagara Falls, N. Y.	April 5, 1882
RICE, EDWARD C.	3649 Pine st., St. Louis, Mo.	April 7, 1875
RICE, GEORGE S.	Dep. Ch. Eng. Aqueduct Com., 213 Stewart Bldg., New York City.	Feb. 1, 1882
RICE, L. FRED.	American House, Boston, Mass.	Jan. 2, 1889
RICE, WALTER P.	City Civil Eng., Cleveland, Ohio.	March 6, 1889
RICH, WATSON W.	Ch. Eng., Minneapolis, St. Paul & Sault Ste. Marie Ry., Minneapolis, Minn.	Sept. 5, 1883
RICHARDS, CHARLES B.	Prof. Mech. Eng., Sheffield Scientific School, Yale College, (P.O. Address 313 York st.) New Haven, Conn.	Aug. 7, 1872
RICHARDS, H. TUDOR	Asst. Gen. Man. Sonoro R. R., Guay- mas, Sonora, Mexico.	Oct. 6, 1886
RICHARDSON, B. FRANK	Div Eng. Baltimore & Ohio R. R. 2126 Wharton st., Philadelphia, Pa.	July 1, 1885
RICHARDSON, HENRY B.	Ch. State Eng. New Orleans, La.	May 7, 1879
RICHARDSON, THOMAS F.	Locating Eng. Manitou and Pikes Peak R. R., Manitou, Colo.	Nov. 4, 1885
RICKETTS, PALMER C.	Wm Howard Hart, Prof. Ra- tional and Technical Mechanics, { Rensselaer Pol. Inst., Troy, N. Y. {	A. Feb. 4, 1886 M. Oct 5, 1887
RICKON, FRED J. H.	City Eng., Little Rock, Ark.	Jan. 4, 1888
RIFFLE, FRANKLIN	Ch. Eng. Oregon & Washington Ter- ritory R. R., Walla Walla, Wash.	Nov. 7, 1882
RINECKER, FRANCIS	Civil Eng. Wuerzburg, Germany.	Aug. 7, 1872
RIVES, ALFRED L.	Gen. Supt. Panama R. R., Panama, U. S. Colombia; address: Mills Bldg., New York City.	Sept. 4, 1872
ROBERTS, EVELYN P.	Asst. Eng. Aqueduct Commission, (Box 527.) Sing Sing, N. Y.	May 7, 1884
ROBERTS, PERCIVAL, JR.	261 South Fourth st., Philadel- phia, Pa.	A. May 7, 1876 M. June 4, 1884
ROBINSON, ALBERT A.	Second Vice-Pres. Man. and Ch. Eng. Atchison, Topeka & Santa Fé R.R. Topeka, Kansas.	May 5, 1880
ROBINSON, ALBERT F.	(Care E. L. Corthell.) 205 La Salle st., Chicago, Ill.	Nov. 2, 1887
ROBINSON, GEORGE H.	Asst. Gen. Man. and Eng. The Mon- tana Co (Ltd.) Marysville, Mont.	March 7, 1888
ROBINSON, STILLMAN W.	Prof. of Mech Eng. Ohio State University, Columbus Ohio.	Jan. 2, 1884
ROCKWELL, SAMUEL	Ch. Eng. Eastern Ry., St. Paul, Minn.	Jan. 7, 1880
RODD, THOMAS	Prin. Asst. Eng. Penn. Co., Pitts- burgh, Pa.	Jan. 5, 1878

Name.	Address.	Date of Membership.
ROGERS, FAIRMAN	(Care Messrs. Dick Bros. & Co.) 147 South Fourth st., Philadelphia, Pa., and Newport, R. I.	May 7, 1873
ROSE, CHARLES C.	Div. Eng. Delaware, Lackawanna & Western R. R., Scranton, Pa.	April 4, 1888
ROSECRANS, WILLIAM S.	Register U. S. Treasury, Washington, D. C.	July 5, 1882
ROSEWATER, ANDREW	430 Paxton Block, Omaha, Neb.	Oct. 3, 1883
ROSS, JAMES	P. O. Box 788, Sherbrooke, Quebec, Canada.	Sept. 6, 1882
ROTCH, WILLIAM	Pres. Consolidated Electric Mfg. Co., 8 Exchange Place, Boston, Mass.	March 5, 1873
ROTHWELL, RICHARD P.	Mining Eng., Editor <i>Engineering and Mining Journal</i> , (P. O. Box 1833.) 27 Park Place, New York City.	Jan. 29, 1868
ROWE, SAMUEL M.	Ch. Eng. Western Div. Atlantic & Pacific R. R., Albuquerque, N. M.	Sept. 2, 1885
ROWLAND, CHARLES L.	61 Morton st., Brooklyn, N. Y.	Sept. 1, 1886
ROWLAND, THOMAS F.	Pres. Continental Iron Works, P. O. Station G, Brooklyn, N. Y. (Resi- dence, 329 Madison ave., New York City.)	Dec. 4, 1867
ROWLAND, THOMAS F., JR.	Sec. and Treas. The Continental Iron Works, P. O. Station G, Brooklyn, N. Y.	Sept. 1, 1886
RUDLOFF, HENRY F.	(Care Chr. Tams & Co.) Puerto Cab- ello, Venezuela.	Jan. 6, 1886
RUGGLES, WILLIAM B.	Fern Bank, Hamilton Co., Ohio.	April 7, 1886
RUMBLE, WILLIAM	Asst. Eng. Hudson Suspension Bridge & New England R. R., 38 Wall st., New York City.	Sept. 1, 1886
RUNDLETT, LEONARD W.	City Eng. St. Paul, Minn.	Sept. 5, 1883
RUSLING, GEORGE M.	Civil Eng. and Contractor, Hacketts- town, N. J.	Nov. 1, 1882
RUSSELL, S. BENT	Asst. Eng. in chg. Water Works { Extension, 77 E. May st., St. J. June 4, 1884 Louis, Mo. M. June 1, 1887	
RUSSELL, NATHANIEL E.	580 First ave., Lansingburgh, N. Y.	Oct. 3, 1889
RUTHERFURD, FRANCIS M.	Asst. Eng. Richmond & Danville R. R., Richmond, Va.	Oct. 6, 1886
SAFFORD, EDWARD S.	Ch. Eng. Shelby Iron Works, Shelby, Ala.	Dec. 6, 1882
SAMPLE, JOHN H.	Ch. Eng. Louisville, St. Louis & Texas Ry., 251 Fourth st., Louisville, Ky.	Oct. 6, 1886

Name.	Address.	Date of Membership.
SANDERSON, J. GARDNER	Rondout, N. Y.	July 6, 1881
SAUNDERS, WILLIAM L.	Secy. and Eng. Ingersoll-Sergeant Rock Drill Co., 10 Park Place, New York City.	Nov. 3, 1886
SAVAGE, ALBERT C.	445 Tenth st., Brooklyn, N. Y.	May 4, 1881
SAWYER, CHARLES H.	Cashier, The Bank of Scottsville, Scottsville, Kans.	June 2, 1886
SCHAEFFER, JOHN S.	Civil Eng., 191 Littleton ave., Newark, N. J.	June 2, 1886
SCHAUB, JULIUS W.	Eng. Detroit Bridge & Iron { J. Works, Detroit, Mich. } M.	Nov. 5, 1884 Oct. 6, 1886
SCHERZER, ALBERT J.	(Care W. H. Harned.) 206 South Fourth st., Philadelphia, Pa.	Jan. 6, 1886
SCHERZER, WILLIAM	159 Home Insurance Bldg., Chicago, Ill.	Sept. 5, 1888
SCHMIDT, MAX O. E.	(Care Am. Soc. C. E.) 127 East Twenty-third st., New York City.	May 7, 1879
SCHNEIDER, CHARLES C.	Ch. Eng. Pencoyd Bridge and Con- struction Co., 261 South Fourth st., Philadelphia, Pa.	Feb. 6, 1884
SCHUYLER, JAMES D.	Ch. Eng. San Diego Land and Town Co., National City, Cal.	Dec. 6, 1882
SCOTT, ADDISON M.	Res. Eng. U. S. Imp. Gt. Kanawha River, Charleston, West Va.	June 2, 1886
SCOTT, ARTHUR H.	Wayne Co. Savings Bank Bldg., De- troit, Mich.	May 2, 1883
SCOTT, CHARLES A.	Eng. & Contractor, Quebec, Canada.	Nov. 5, 1884
SCOVILL, E. TRACY	22 Walnut st., Cleveland, O.	Sept. 6, 1876
SEAMAN, HENRY B.	Ch. Asst. Eng., Wilson Bros. & { J. Co., 1036 Drexel Bldg., Phila- } M. delphia, Pa.	June 2, 1886 Dec. 7, 1887
SEARLES, WILLIAM H.	Civil and Cons. Eng., Wade Building, Cleveland, O.	July 2, 1873
SEARS, ALFRED F.	Eng. Metropolitan Ry., Portland, Ore.	June 2, 1869
SEDGWICK, THOMAS S.	Cons. Sanitary Eng., Florence Hotel, San Diego, Cal.	July 20, 1870
SELLERS, COLEMAN	Prof. Eng. Practice, Stevens Insti- tute, Hoboken, N. J. Address: 3301 Baring st., Philadelphia, Pa.	May 3, 1876
SELLERS, WILLIAM	1819 Vine st., Philadelphia, Pa.	May 3, 1876
SEWALL, JOSEPH S.	481 Carroll st., St. Paul, Minn.	July 7, 1875
SEYMOUR, CHARLES	Madisonville, Hopkins Co., Ky.	Sept. 6, 1871
SEYMOUR, HORATIO, JR.	Man. Director Michigan Land and { A. Iron Co. (Limited), Marquette, } M. Mich.	Jan. 3, 1873 April 7, 1880

Name.	Address.	Date of Membership.
SHAILER, ROBERT A.	(Shailer and Schniglan.) 609 Phœnix Bldg., Chicago, Ill.	March 3, 1880
SHANKS, THOMAS P.	Min. Eng. Union Paving Co., 237 Jacob st., Louisville, Ky.	May 2, 1888
SHANLY, JAMES M.	40 St. Mark st., Montreal, Canada.	July 6, 1887
SHAW, GRANVILLE W.	U. S. Asst. Eng., P. O. Box 124, Louisville, Ky.	Oct. 5, 1887
SHEARER, SAMUEL H.	Eng. National Vulcanite Co., Room 7, Ingalls Block, Indianapolis, Ind.	Jan. 5, 1887
SHEDD, J. HERBERT	74 Westminster st., Providence, R. I.	Sept. 15, 1869
SHEPARD, DAVID C.	St. Paul, Minn.	May 2, 1883
SHERMAN, RICHARD W.	36 Broad st., Utica, N. Y.	Oct. 6, 1887
SHINN, WILLIAM P.	(Director.) Vice-Pres. New York & New England R. R., 36 Wall st., New York City.	Sept. 15, 1869
SICARD, MERTILIANO	Ibague, Tolimo, U. S. Colombia.	Jan. 4, 1882
SIMPSON, ALFRED H.	35 Broadway, New York City.	Sept. 7, 1887
SIMPSON, GEORGE F.	(Care Am. Soc. C. E.) 127 East 23d st., New York City.	March 2, 1887
SIMPSON, GEORGE H.	City Eng., Terre Haute, Ind.	Oct. 6, 1880
SKILTON, GEORGE S.	68 Columbia Heights, Brooklyn, N. Y.	Sept. 7, 1881
SKINNER, FRANK W.	Editorial Staff <i>Engineering and Building Record</i> , 277 Pearl st., New York City.	Sept. 1, 1886
SLATAPER, FELICIAN	Ch. Eng. Pennsylvania Co., Pittsburgh, Pa.	Sept. 15, 1869
SLOAN, ROBERT I.	Ch. Eng. Manhattan Elevated Ry., 71 Broadway, New York City.	Oct. 1, 1884
SMEDLEY, SAMUEL L.	Ch. Eng. and Surveyor, City Hall, Philadelphia, Pa.	Sept. 2, 1874
SMITH, ALBERT M.	Consolidated Gas Co., Eighteenth st. and Tenth ave., New York City.	May 5, 1886
SMITH, B. BURGH	U. S. Asst. Eng. Sixth Light House District, 5 Southern Wharf, Charleston, S. C.	Nov. 7, 1888
SMITH, D. LOWBER	71 West Eighty-third st., New York City.	May 4, 1887
SMITH, FREDERICK H.	Civil and Cons. Engineer and Bridge Builder, 227 East German st., Baltimore, Md.	Feb. 21, 1872
SMITH, HAMILTON, JR.	5 Union Court, Old Broad st., London, E. C., England.	Feb. 5, 1879
SMITH, ISAAC A.	Ch. Eng. St. Louis Transfer Ry., 24 North Third st., St. Louis, Mo.	Oct. 3, 1888
SMITH, ISAAC W.	Supt. City Water Works, Portland, Oregon.	Oct. 1, 1873

Name.	Address.	Date of Membership.					
SMITH, JARED A.	Lient. Col. Corps Engs. U. S. A., Portland, Me.	May 2, 1883					
SMITH, JOSEPH S.	(Care La Montague Clarke & Co.) 44 Broadway, New York City.	April 1, 1874					
SMITH, LUCIUS A.	Continental Iron Works, Greenpoint, N. Y.	May 7, 1873					
SMITH, MILLER A.	224 Keep st., Brooklyn, N. Y.	Oct. 6, 1886					
SMITH, OBERLIN	Pres. Ferracute Machine Co., Bridgeton, N. J.	Sept. 3, 1884					
SMITH, T. GUILFORD	Chapin Block, (P. O. Drawer 156) Buffalo, N. Y.	Sept. 6, 1871					
SMITH, W. HARRISON	Eng. Carnegie Bros. & Co. (Ltd.), 48 Fifth ave., Pittsburgh, Pa.	July 5, 1882					
SMITH, WM. SOOY	Maywood, Cook Co., Ill.	Jan. 17, 1872					
SNOW, J. PARKER	Engrs. Office Boston & Maine R. R. Boston, Mass.	June 3, 1885					
SOMERVILLE, ROBERT	Asst. Eng. Board Mississippi Levee Com., Greenville, Miss.	June 1, 1887					
SONNE, OTTO F.	U. S. Asst. Eng., U. S. Engrs. Office, Kansas City, Mo.	Sept. 7, 1887					
SOOYSMITH, CHARLES	(SooySmith & Co., Civil Engrs. and Contractors.) 2 Nassau st., New York City.	May 5, 1886					
SORZANO, JULIO F.	Cons. Civil Eng., 33 Broadway, New York City.	Sept. 3, 1884					
SOSA, PEDRO J.	Panama, U. S. Colombia.	Dec. 3, 1884					
SOULE, HOWARD	Syracuse, N. Y.	Mar. 17, 1869					
SPENCER, SAMUEL	(Care Drexel, Morgan & Co.) cor. Wall and Broad sts., New York City.	Sept. 2, 1885					
SPROULE, WILLIAM J.	Prin. Asst. Eng. Harbor Trust, Montreal, Canada.	Sept. 1, 1886					
STAATS, JOHN H.	(R. P. and J. H. Staats, Civil Engrs. and Contractors.) 35 Broadway, New York City.	March 5, 1884					
STATTS, ROBERT P.	(R. P. and J. H. Staats, Civil Engrs. and Contractors.) 35 Broadway, New York City.	<table border="0"> <tr> <td data-bbox="674 1113 687 1179" rowspan="2">}</td> <td data-bbox="687 1113 701 1134">J.</td> <td data-bbox="704 1113 781 1134">Nov. 3, 1875</td> </tr> <tr> <td data-bbox="687 1134 701 1156">M.</td> <td data-bbox="704 1134 781 1156">July 1, 1885</td> </tr> </table>	}	J.	Nov. 3, 1875	M.	July 1, 1885
}	J.	Nov. 3, 1875					
	M.	July 1, 1885					
STALEY, CADY	Pres. Case School Applied Science, Cleveland, Ohio.	Mar. 17, 1869					
STANTON, ROBERT B.	Civil and Mining Eng., 28 Barclay Bldg., Denver, Colo.	Sept. 1, 1880					
STARLING, WILLIAM	Ch. Eng. Mississippi Levee District, Greenville, Miss.	Sept. 7, 1887					
STAUFFER, DAVID MCN.	Editor <i>Engineering News</i> , Tribune Bldg., Room 105, New York City.	Sept. 2, 1874					
STEARNS, FREDERIC P.	Ch. Eng. State Board of Health, 13 Beacon st., Boston, Mass.	Oct. 2, 1878					

Name.	Address.	Date of Membership.
STEARNS, IRVING A.	Man. Coal Companies of Pennsylvania R.R. Co., Wilkesbarre. Pa.	April 2, 1884
STEPHENS, CLINTON F.	1230 Washington ave., St. Louis, Mo.	Sept. 5, 1877
STEVENS, FRANK S.	Div. Eng. M. L. Div. Philadelphia & Reading R.R., Reading. Pa.	Oct. 3, 1883
STEVENS, JOHN F.	3217 Lindley ave, Minneapolis, Minn.	June 6, 1888
STEVENS, HORACE E.	P. O. Box 2396, St. Paul, Minn.	{ J. Nov. 1, 1876 { M. April 4, 1888
STEWART, JOHN M.	P. O. Box 87, Dobbs Ferry, N. Y.	{ J. March 2, 1887 { M. Jan. 4, 1888
STIXRUD, MARTINIUS	Eng. Constr. Seattle, Lake Shore & Eastern Ry., Seattle, Wash.	April 3, 1889
STONE, EDWARD H.	In chg. Construction Section, office Director General of Railways, Simla, India.	Dec. 5, 1888
STOREY, WILLIAM B., Jr.	Cor. 4th and Townsend sts., San Francisco, Cal.	Jan. 2, 1889
STOWELL, CHARLES F.	Bridge Eng. N. Y. State Board R. R. Commrs., Albany, N. Y.	April 4, 1888
STRIEDINGER, JULIUS H.	(Care Am. Soc. C. E.) 127 E. 23d st. New York City.	Feb. 2, 1876
STROBEL, CHARLES L.	Cons. Eng. Keystone Bridge Co., 205 La Salle st., Chicago, Ill.	Dec. 3, 1879
STRONG, CHARLES H.	1357 Wilson ave., Cleveland, Ohio.	Jan. 8, 1873
STUBBS, LINTON W.	Res. Eng.. Vicksburg, Shreveport & Pacific and Alabama & Vicksburg R. Rs., Monroe, Ala.	Oct. 3, 1888
SURTEES, ROBERT	Man. Water Works, Ottawa, Canada.	April 5, 1882
SWAN, CHARLES H.	Civil and Sanitary Eng., 25 Wabon st., Boston, Mass.	Mar. 16, 1870
SWEET, ELNATHAN	13 Tenbroeck st., Albany, N. Y.	Nov. 6, 1878
SWEET, WILLIAM A.	Pres. Sweet Mfg. Co., Syracuse, N. Y.	Feb. 2, 1876
SWIFT, ALEXANDER J.	Ch. Eng., N. R. R. Dept. Delaware and Hudson Canal Co., Albany, N. Y.	Feb. 1, 1888
SYMINGTON, WILLIAM N.	P. O. Box 2011, New York City.	May 4, 1881
TALBOT, ARTHUR N.	Asst. Prof. Eng. and Mathematics, University Illinois, Champaign, Ill.	April 4, 1888
TALCOTT, COOK	Hudson Suspension Bridge & New England Ry., 38 Wall st., New York City.	April 15, 1868
TALCOTT, E. N. KIRK	Morgan Park, Cook Co., Ill.	Jan. 29, 1868
TALCOTT, THOMAS M. R.	First Vice-Pres. Richmond & Danville R. R., Richmond, Va.	Sept. 1, 1886

Name.	Address.	Date of Membership.
TAYLOR, EDWARD B.	Gen. Supt. North West System, Penna. Lines, West of Pittsburgh, Pittsburgh, Pa.	Sept. 3, 1884
TEMPLE, ROBERT H.	Ch. Eng. Tennessee Midland Ry., Cotton Exchange Bldg., Memphis, Tenn.	May 6, 1885
THACHER, EDWIN	Trustee Decatur Iron Bridge & Cons. Co., Eng. and Contractor for Bridges, Decatur, Ala.	Feb. 17, 1869
THACKRAY, GEORGE E.	Asst. Eng. N. Y. State Board, (J. R.R. Commrs., Albany, N. Y. (M.	Sept. 6, 1882 April 7, 1886
THAYER, RUSSELL	Ch. Eng. and Supt. Fairmont Park. Cons. Eng., City Hall (Residence, Chestnut Hill.) Philadelphia, Pa.	Dec. 6, 1882
THOMAS, BENJAMIN F.	U. S. Asst. Eng. Louisa, Ky.	April 6, 1887
THOMAS, JOSEPH R.	Cons. Eng. 138 East Seventy-ninth st., New York City.	Oct. 5, 1881
THOMPSON, WILLIAM G. M.	Res. Eng. Sault. Ste. Marie Canal, Sault Ste. Marie, Ont., Canada.	July 2, 1879
THOMPSON, SAMUEL C.	832 East 161st st., New York City.	Feb. 6, 1889
THOMSON, GEORGE H.	Eng. Bridges New York Central & Hudson River R.R., Room 21, Grand Central Station, New York City.	Feb. 2, 1887
THOMSON, JOHN,	Mfr. Printing and Embossing Presses, and Water Meters, 11-13 Temple Court, New York City.	March 2, 1887
THORNDIKE, JOHN L.	Lima, Peru. (Care of J. S. Spinney, 66½ Pine st., New York City.)	May 7, 1873
THURSTON, ROBERT H.	Director of Sibley College, Cornell Univ. Ithaca, N. Y.	Dec. 6, 1871
TIDD, MARSHALL M.	Civil Eng., 10 Tremont st., Boston, Mass.	Oct. 2, 1878
TINGLEY, GEORGE C.	21 South Main st., Providence, R. I.	Sept. 6, 1871
TINTORER Y GIBERGA, JOSE	Asalto No. 12, Barcelona, Spain.	May 5, 1880
TITLOW, J. MILTON	Prin. Asst. Eng. Dept. Public Works, City Hall, Philadelphia, Pa.	Aug. 6, 1879
TODD, FRANK H.	City Eng., St. Cloud, Minn.	Feb. 6, 1889
TOMLINSON, ALFRED T.	Asst. Eng. Denver and Rio Grande R. R., Denver, Colo.	Sept. 7, 1887
TOMPSON, GEORGE M.	Lock Box 1455, Woburn, Mass.	May 2, 1888
TOWLE, STEVENSON	Cons. Eng. of Sanitary Drainage, 25 Chambers st., New York City.	Feb. 19, 1868
TOWNE, HENRY R.	President Yale & Towne Mfg. Co., Stamford, Conn.	Oct. 3, 1883
TRUESDELL, CHARLES	Supt. Homer & Cortland Gas Light Co., Cortland, N. Y.	Sept. 15, 1869

Name.	Address.	Date of Membership.
TUBBS, J. NELSON	Ch. Eng. Water Works, Rochester, N. Y.	Sept 3, 1884
TULLOCK, ALONZO J.	Propr. Missouri Valley Bridge and Iron Works, Leavenworth, Kansas.	June 6, 1883
UNTHANK, ACHILLES W.	Ch. Eng. San Joaquin Land & Water Co., Knight's Ferry, Cal.	July 2, 1873
VAN BROECKLIN, MARTIN	Elizabeth, Lincoln Co., Neb.	Jan. 7, 1880
VAN BUREN, JOHN D.	Newburgh. N. Y.	May 20, 1868
VAN BUREN, ROBERT	Ch. Eng. Dept. City Works, 153 Remsen st., Brooklyn, N. Y.	June 17, 1868
VANCE, HART	Civil Eng., Middleport, Meigs Co., Ohio.	July 7, 1880
VANDERPOOL, EUGENE	Pres. and Eng. Newark Gas Light Co. Newark, N. J.	Sept. 2, 1874
VAN HORNE, JOHN G.	15 Cortlandt st., Room 78, New York City.	Feb. 4, 1880
VAN SANT, ROBERT L.	Ch. Eng. Indianapolis, Decatur & Western Ry., Indianapolis, Ind.	Sept. 3, 1880
VAN WINKLE, EDGAR B.	117 East Seventieth st., New York City.	Dec. 2, 1868
VARONA, IGNACIO M. DE	163 East Sixtieth st., New York City.	April 7, 1886
VEAZIE, JOSEPH	U. S. Asst. Eng. (P. O. Box 209,) Boston, Mass.	May 3, 1876
VOORHEES, THEODORE	Asst. Gen. Supt. New York Central & Hudson River R. R., Grand Central Station, New York City,	May 6, 1885
WADDELL, JOHN A. L.	Cons. Bridge Eng., Keith & Perry Bldg., cor. 9th and Walnut sts., Kansas City, Mo.	Oct. 5, 1881
WAGNER, SAMUEL TOBIAS	Supt. Shops, Phoenix Iron Co., Phoenixville, Pa.	Feb. 2, 1887
WAITE, CHRISTOPHER C.	Vice-Pres. Cincinnati. Hamilton & Dayton R. R., Cincinnati, O.	March 3, 1880
WALKER, J. S.	Box 16, Birmingham, Ala	Jan. 5, 1881
WALKER, JESSE W.	Proprietor Shiffler Bridge Works. Pittsburgh, Pa.	May 7, 1884
WALKER, WILLIAM W.	Gen. Man. Tucson, Globe & Northern R. R., 11 Wall st., New York City.	Oct. 6, 1880
WALLACE, JOHN F.	(Care E. L. Corthell.) 205 La Salle st., Chicago, Ill.	June 2, 1886
WARD, CHARLES D.	Indurated Fibre Co., Oswego, N. Y.	Mar. 3, 1869
WARD, JOHN F.	291 Montgomery st., Jersey City, N. J.	Oct. 6, 1886

Name.	Address.	Date of Membership.
WARD, LEBBEUS B.	Taylor's Hotel, Jersey City, N. J.	Mar. 16, 1870
WARDLAW, JAMES R.	25 Chambers st., Room 25, New York City.	Mar. 3, 1886
WARE, R. WILLARD	Plainfield, N. J.	April 1, 1874
WASHBURN, FRANK S.	143 Washburn ave., Chicago, Ill.	Nov. 7, 1888
WATKINS, FREDERICK W.	118 East 115th st. New York City.	Oct. 3, 1883
WATSON, WILLIAM P.	(Care Oregon Ry. and Navigation Co.) Portland, Ore.	June 1, 1887
WEEKS, HARVEY R.	North Vernon, Ind.	March 5, 1873
WEGMANN, EDWARD, JR.	Div. Eng. New Croton Aqueduct, 324 St. Nicholas ave., New York City.	March 7, 1888
WEIR, FREDERIC C.	Pres. The Weir Frog Co., Cincinnati, Ohio.	Aug. 7, 1872
WEINHAGEN, FRED.	Gen. Man. Wisconsin Bridge and Iron Works, Wauwatosa, Milwaukee Co. Wis.	July 4, 1888
WEISKOPF, SAMUEL C.	Room 314, Penn Building, Pitts- burgh, Pa.	J. May 7, 1884 M. Dec. 5, 1889
WELD, F. FLOYD	City Eng., Waterbury, Conn.	Sept. 3, 1884
WELLINGTON, ARTHUR M.	Editor <i>Engineering News</i> , Tribune Bldg., Room 105, New York City.	May 4, 1881
WELLMAN, DAVID W.	Asst. Eng. Mo. River Comm., 1415 Washington ave., St. Louis, Mo.	Oct. 5, 1870
WENTWORTH, CHARLES C.	Eng. and Man. American Bridge and Iron Co., Roanoke, Va.	April 4, 1888
WENTWORTH, WILLIAM H.	Ch. Eng., Monterey and Mexican Gulf Ry., Monterey, Mexico.	Jan. 2, 1889
WESTON, EDMUND B.	Asst. City Engineer in charge of Water Dept. (Lock Box 1071), Providence, R. I.	Dec. 6, 1882
WETHERILL, WILLIAM C.	Gen. Man. Empire Zinc Co., Joplin, Mo.	Dec. 1, 1886
WHEELER, EBENEZER S.	Asst. U. S. Eng., Gen. Supt. St. Mary's Falls Canal, Sault Ste. Marie, Mich.	Nov. 7, 1883
WHEELER, LEVI L.	Lock Box 132, Chicago, Ill.	June 4, 1884
WHEELER, ORLANDO B.	U. S. Asst. Eng., 1415 Washington ave., St. Louis, Mo.	Nov. 2, 1887
WHEELER, SCHUYLER S.	Electrical Expert Board Electrical Control, 1268 Broadway; Pres. and Man. Crocker-Wheeler Elec. Motor Co., 322 Seventh ave., New York City.	J. March 2, 1887 M. Feb. 6, 1889
WHINERY, SAMUEL	Gen. Man. Warren-Scharf Asphalt Paving Co., 23 Blymyer Bldg. Cincinnati, Ohio.	J. April 1, 1874 M. May 4, 1881

Name	Address.	Date of Membership,
WHISTLER, THOMAS D.	640 Madison ave., New York City.	J. March 5, 1884
		M. May 2, 1888
WHITCOMB, HENRY D.	Cons. Eng. Chesapeake & Ohio Ry., Richmond, Va.	Feb. 21, 1872
WHITE, GEORGE H.	Prof. Civil Eng., Worcester Pol. Inst., P. O. Box 976, Worcester, Mass.	May 2, 1883
WHITE, W. HOWARD	74 Wall st., New York City.	March 5, 1873
WHITELAW, JOHN	Eng. and Supt. Water Works, Cleve- land, O.	Feb. 5, 1873
WHITFORD, OSCAR F.	Casilla 34 D, Santiago, Chili.	Dec. 6, 1871
WHITLOCK, FRANK W.	Asst. City Eng. (P. O. Box 715.) Waterbury, Conn.	J. Oct. 4, 1876
		M. April 1, 1885
WHITMAN, THOMAS J.	417 Olive st., Room 25, St. Louis, Mo.	Jan. 29, 1868
		J. May 3, 1876
WHITNEY, FRANK O.	City Hall, Boston, Mass.	M. Jan. 5, 1887
		July 10, 1872
WHITNEY, JOSEPH	Cambridgeport, Mass.	July 10, 1872
WHITTEMORE, DON J.	(<i>Past President.</i>) Ch. Eng. Chicago, Milwaukee & St. Paul Ry., Mil- waukee, Wis.	July 10, 1872
WHITTEN, NATHAN H.	Eng. Holyoke Machine Co., Holyoke, Mass.	Jan 7, 1876
WIGHTMAN, WILLARD H.	Ashland, Oregon.	Sept. 5, 1888
WILDER, FRANCIS M.	Asst. to Pres. U. S. Rolling Stock Co., Hegewisch, Ill.	Jan. 5, 1881
WILEY, WILLIAM H.	15 Astor Place, New York City.	Feb. 17, 1869
WILLIAMS, EDWARD H.	Baldwin Locomotive Works, Phila- delphia, Pa.	Sept. 5, 1883
WILLIAMSON, F. STUART	Eng. Wallis Iron Works, Jersey City, N. J.	Sept. 7, 1887
WILLIAMSON, WM. GARNETT	City Eng., Montgomery, Ala.	April 4, 1883
WILSON, ARTHUR OWEN	Sec. Treas. and Gen. Man. The Huntsville Belt Line and Monte Sano Ry., Huntsville, Ala.	March 7, 1888
		Feb. 1, 1888
WILLSON, ELLIOTT H.	(Care Willson & Gillie.) Butte, Mont.	Feb. 1, 1888
WILSON, HENRY W.	Civil Eng., Drexel Bldg., Philadel- phia, Pa.	Sept. 6, 1876
		June 7, 1876
WILSON, JOHN A.	Civil Eng., Drexel Bldg., Philadel- phia, Pa.	June 7, 1876
WILSON, JOSEPH M.	Civil Eng. and Architect, Drexel Bldg., Philadelphia, Pa.	April 2, 1873
WIMMER, SEBASTIEN	Civil Eng., St. Mary's, Elk Co., Pa.	March 2, 1881
WISNER, GEORGE Y.	Res. Eng., Brazos River Channel & Dock Co., Velasco, Texas.	April 5, 1876
WOLCOTT, CHRISTOPHER C.	Civil Eng. U. S. N., U. S. Navy Yard, Mare Island, Cal.	March 5, 1884

MEMBERS.

Name.	Address.	Date of Membership.
WOOD, JOSEPH	Gen. Supt. Trans. Penna. lines west of Pittsburgh, Pittsburgh, Pa.	April 1, 1874
WOODBURY, CHARLES J. H.	Second Vice-Pres. Mfrs. Mutual Fire Ins. Co., 31 Milk st, Boston, Mass.	Dec. 3, 1884
WORTHEN, WILLIAM E.	(<i>Past President.</i>) 63 Bleecker st., New York City.	Dec. 4, 1867
WRIGHT, AUGUSTINE W.	504 Phoenix Bldg., Chicago, Ill.	May 5, 1886
WRIGHT, EDWARD T.	Abstract Bldg., Los Angeles, Cal.	Feb. 3, 1886
WRIGHT, GEORGE F.	City Surveyor, Santa Barbara, Cal.	Jan 4, 1888
WROTNOWSKI, ARTHUR F.	Eng. in chg. Harbor Works, Tampico, Mexico.	July 12, 1877
WURTELE, ARTHUR S. C.	Deputy State Eng. and Surveyor, Albany, N. Y.	March 5, 1873
YEATMAN, CHARLES P.	Coalburg, Ala.	Feb. 2, 1887
YONGE, SAMUEL H.	U. S. Asst. Eng., U. S. Engineer's Office, Kansas City, Mo.	May 5, 1880
YOUNG, JOHN	Geneseo, N. Y.	Mar. 7, 1888

MEMBERS, 979.

ASSOCIATES.

[Assoc. Am. Soc. C. E.]

Name.	Address.	Date of Membership.
ABBOTT, WILLIAM L.	Carnegie, Phipps & Co., Pittsburgh, Pa.	May 1, 1889
ANDREWS, EDWARD R.	Man. for Eastern Mass. of Equitable Life Assurance Society, Equitable Bldg., Boston, Mass.	June 5, 1878
BARNES, WILLIAM H.	Pres. and Receiver Allegheny Valley R. R., 234 South Fourth st., Philadelphia, Pa.	Sept. 2, 1885
BEARDSLEY, ARTHUR	I. V. Williamson Prof. Eng. and Director of the Workshops, Swarthmore College, Swarthmore, Pa.	Sept. 1, 1875
BELCHER, GEORGE C. W.	2646 Washington ave., St. Louis, Mo.	May 5, 1880
BERG, LOUIS DE COPPET	111 Broadway, New York City.	June 6, 1888

Name.	Address.	Date of Membership.
BOGART, SAMUEL S.	Supt. Telegraphs and Signals West Shore R. R., foot of West Forty-second st., New York City. (Residence, Schraalenburgh, N. J.)	April 7, 1886
BRADBURY, HENRY R.	(Care Warren-Scharf Asphalt Paving Co.) 81 Fulton St., New York City.	July 1, 1881
BROWN, JACOB B.	P. O. Box 501, Newport, R. I.	Sept. 6, 1871
BURROWS, GEORGE L.	Saginaw, Mich.	Feb. 3, 1886
CARD, JOSEPH P.	Pres. Chicago Tie Preserving Co., Fifteenth and Clark sts., Chicago, Ill.	Sept. 5, 1883
COMPTON, ALFRED G.	Prof. of Applied Mathematics, College City of New York, New York City.	Sept. 5, 1877
CRAFTS, GEORGE H.	Civil Eng. and Contractor, Box 245, Atlanta, Ga.	April 4, 1888
DAVIS, EMORY C.	City Eng., Northampton, Mass.	Dec. 4, 1872
DAVIS, J. WOODBRIDGE	32 East Forty-fifth st., New York City.	June 3, 1885
DU BARRY, EDMUND L.	Supt. Eastern Div. Norfolk & Western R. R., Crewe, Nottoway Co., Va.	Jan. 6, 1875
FLETCHER, ROBERT	Prof. of Civil Eng., Thayer School of Civil Engineering, Dartmouth College, Hanover, Grafton Co., N. H.	Nov. 4, 1874
FROST, GEORGE H.	Business Man. <i>Engineering News</i> , Tribune Bldg., New York City.	Jan. 4, 1882
GIBSON, WILLIAM, JR.	Publisher, <i>The Engineering and Building Record</i> , 277 Pearl st., (P. O. Box 3037) New York City.	Sept. 5, 1888
HALL, CLAYTON C.	Cons. Actuary, Actuary to Insurance Dept. of State of Maryland, 10 South st., Baltimore, Md.	March 3, 1886
HAMMOND, HENRY B.	Pres. and Receiver Indianapolis Decatur & Western Ry., Pres. Boston & New York Air Line R. R., 2 Wall st., New York City.	July 7, 1880
HANDY, FRANK W.	Avondale, Cincinnati, Ohio.	Oct. 6, 1886
HARDWICKE, ALAN H. G.	Buffalo, N. Y.	June 4, 1884
HARRIS, CHARLES M.	White Plains, N. Y.	Jan. 8, 1873
HENDRIE, JOHN S.	Railway Contractor, Hamilton, Ontario, Canada.	Sept. 7, 1881
LEWIS, JAMES F.	Rand Drill Co., 23 Park Place, New York City.	Feb. 6, 1889

Name.	Address.	Date of Membership.
LAWSON, LEONIDAS M.	102 Broadway, New York City.	Dec. 3, 1879
LOCKWOOD, JOHN	Gas and Hydr. Eng., 52 Broadway, New York City.	April 5, 1882
McKINNEY, ROBERT C.	Secy. and Treas. Niles Tool Works, and The Gordon Steam Pump Co., Hamilton, Ohio.	Oct. 6, 1886
MORDECAI, GRATZ	Office Gen. Supt. Trans. Penn. R. R., Philadelphia, Pa.	Oct. 5, 1887
MOXHAM, ARTHUR J.	Pres. Johnson Steel Street Rail Co., Johnstown, Pa.	Nov. 2, 1887
NICOL, THOMAS W.	Ch. Eng. Mobile, Jackson & Kansas City R. R., 36 St. Francis st., Mobile, Ala.	June 7, 1882
PARSONS, GEORGE W.	Supt. Frog Switch & Signal Dept., Pennsylvania Steel Co., Steelton, Pa.	Sept. 3, 1884
PHILLIPS, HENRY A.	Div. Supt. Fitchburg R. R., Worcester, Mass.	April 7, 1886
PRATT, ROBERT J.	Electrical Eng., (Residence, Green- bush, N. Y.)	May 4, 1887
PUTNAM, JOSEPH W.	34 St. Charles st. (Drawer 253) New Orleans, La.	March 3, 1880
REEVES, PAUL S.	760 South Broad st., Philadelphia, Pa.	Sept. 6, 1882
RICHARDS, JOSEPH R.	44 Court st., Boston, Mass.	Feb. 4, 1880
ROBERTS, WILLIAM	Waltham, Mass.	June 4, 1884
SPEED, JAMES B.	Pres. Western Cement Co., Louisville, Ky.	May 2, 1888
STONE, WATERMAN	Gen. Man. Inter-State Consolidated Rapid Transit Ry., Kansas City, Kans.	Dec. 1, 1886
SWAIN, GEORGE F.	Prof. Civil Eng., Massachusetts Insti- tute of Technology, Boston, Mass.	Sept. 5, 1883
TOMKINS, CALVIN	150 Broadway, New York City.	Jan. 6, 1886
TRAUTWINE, JOHN C., JR.	3301 Haverford st., Philadelphia, Pa.	Dec. 5, 1888
WARDER, JOHN H.	Wilmington, Del.	March 7, 1888
WATKINS, J. ELFRETH	Eng. Property and Curator Section Transportation and Engineering, U. S. National Museum, Washing- ton, D. C.	Jan. 2, 1889

Name.	Address.	Date of Membership.
WATSON, WILLIAM	Secy. Am. Academy of Arts and Sciences; address: 107 Marlborough st., Boston, Mass.	March 1, 1882
WHEATON, EDWARD	Boston, Mass.	March 3, 1880
WOODWARD, C. M.	Thayer Prof. of Applied Mechanics and Higher Mathematics, Dean of Polytechnic School, Washington Univ., St. Louis, Mo.	June 2, 1886
YOUNG, FREDERICK S.	Asst. to Pres. of, and also Secy. Gilbert Car Mfg. Co., Troy Club, Troy, N. Y.	April 7, 1886

ASSOCIATES, 50.

JUNIORS.

[Jun. Am. Soc. C. E.]

Name.	Address.	Date of Membership.
ABBOTT, ARTHUR V.	Closter, N. J.	Jan. 5, 1881
ABBOTT, EDWARD L.	(Care SooySmith & Co.) 2 Nassau st., New York City.	Sept. 1, 1886
ADAMS, JULIUS L.	155 Congress st., Brooklyn, N. Y.	Jan. 4, 1888
ALLEN, THOMAS W.	161 East Thirty-fourth st., New York City.	Dec. 5, 1888
BAIER, JULIUS	Asst. Eng. Merchants Terminal Ry., 52 Laclede Bldg., St. Louis, Mo.	Sept. 7, 1887
BAINBRIDGE, FRANCIS H.	Asst. Eng. Edge Moor Bridge Works, Wilmington, Del.	Jan. 4, 1888
BALDWIN, WARD	Asst. Eng. in charge of office Cincinnati, New Orleans & Texas Pacific Ry., 35 West Fourth st., Cincinnati, Ohio.	March 2, 1881
BARNEY, S. E., JR.	Instructor Civil Eng., Sheffield Scientific School, New Haven, Conn.	June 2, 1886
BELL, GILBERT J.	Sibley, Mo.	Sept. 7, 1887
BENSEL, JOHN A.	Asst. Supervisor, Div. A., Penn. R.R., Jersey City, N. J.	Sept. 2, 1885
BISSELL, FRANK E.	Ch. Eng. and Act. Supt. Denver, Texas & Ft. Worth R. R., Room 75, Railroad Bldg., Denver, Colo.	April 2, 1884
BLANC, FREDERICK N.	53 Cedar st., New York City.	July 5, 1882

Name.	Address.	Date of Membership.	
BOGART, JAMES P.	Eng. Conn. Shell Fishery Commission, New Haven, Conn.	Jan.	4, 1882
BOGGS, EDWARD M.	Civil Eng., P. O. Box 406, San Bernardino, Cal.	Oct.	6, 1886
BONNETT, CHARLES P.	Asst. Eng. New Croton Aqueduct, Dobbs Ferry, N. Y.	June	2, 1886
BOOKER, BERNARD F.	Asst. Eng. Main. Way, Gulf, Colorado and Santa Fé Ry., Galveston, Texas.	Oct.	7, 1885
BOOTH, WILLIAM F.	Poughkeepsie, N. Y.	Jan.	7, 1885
BOWDITCH, ERNEST W.	60 Devonshire st., Boston, Mass.	Feb.	3, 1875
BRERETON, THOMAS J.	Supervisor Tyrone Div. Pennsylvania R. R., Osceola, Clearfield Co., Pa.	Oct.	7, 1885
BROWN, C. NEWTON	Assoc. Prof. Civil Eng. Ohio State University, Columbus, Ohio.	Nov.	3, 1886
BROWN, WILLIAM C.	86 Liberty st., New York City.	Sept.	1, 1886
BURDETT, CHARLES L.	21 Trust Co. Block, Hartford, Conn.	Jan.	6, 1875
BURNHAM, GEORGE, JR.	Sec. and Treas. Barr Pumping Engine Co., 500 North Broad st., Philadelphia, Pa.	Jan.	6, 1875
BUTTS, EDWARD	P. O. Box L., Kansas City, Mo.	April	6, 1881
BUTTS, ELIJAH P.	Asst. Eng. Snake River Bridge, Riparia, Wash.	Nov.	3, 1886
CARLL, DAVID S.	1010 Grove st., Kansas City, Mo.	March	7, 1888
CARRÈRE, J. MAXWELL	(Care Carrère and Haas Iron Works.) 36 Park Place, New York City.	Oct.	7, 1885
CARROLL, EUGENE	Res. Eng. Light, Heat and Water Co., Jackson, Miss.	Jan.	4, 1888
CHAPIN, LOOMIS E.	Assoc. Engineer J. D. Cook, Rooms 47 and 48, Produce Exchange, Toledo, Ohio.	Dec.	3, 1884
CLARKE, ST. JOHN	(Care Hoffman and Bates.) Portland, Ore.	Sept.	5, 1888
CLARKE, WILLIAM G.	First Asst. City Eng., City Engrs. office, Toledo, Ohio.	April	4, 1888
CLARKSON, ROBERT C.	(Care Wilson Bros. & Co.) Drexel Bldg., Philadelphia, Pa.	Jan.	5, 1887
CONNETT, ALBERT N.	Room 35, Security Bldg., Kansas City, Mo.	June	6, 1883
CONOVER, ALLAN D.	Prof. of Civ. Eng., University of Wisconsin, Madison, Wis.	June	4, 1884
CRANDALL, CHARLES L.	Asst. Prof. of Civil Eng., Cornell University, Ithaca, N. Y.	June	7, 1876
CRANE, WILL E.	Inspector Lassig Bridge and Iron Works, Pittsburgh, Pa.	May	1, 1889

Name.	Address.	Date of Membership.
DAVIS, JOSEPH B.	Asst. Prof. Civil Eng., University of Michigan, Ann Arbor, Mich.	April 1, 1874
DAY, G. FREDERICK P.	Box. 916, Pasadena, Cal.	Nov. 3, 1880
DOUGLAS, BENJ.	Eng. Bridges Michigan Central R. R., Detroit, Mich.	June 1, 1887
DOWNES, STANCLIFF B.	Asst. Eng. Dept. Public Parks, 1071 Madison ave., New York City.	April 7, 1886
DuBOIS, A. JAY	Prof. of Civil Eng., Sheffield Scientific School of Yale College, New Haven, Conn.	July 7, 1875
DURYEA, EDWIN, JR.	Engrs. Office, Cairo Bridge, Cairo, Ill.	Feb. 2, 1887
EDES, WILLIAM C.	Asst. Eng. Southern Pacific Co., San Francisco, Cal.	Sept. 1, 1886
ELLSWORTH, ALFRED B.	(Care Pittsburg Testing Laboratory,) Pittsburgh, Pa.	May 1, 1889
ERLANDSEN, OSCAR	Pennsylvania, Poughkeepsie and Boston R. R., Portland, Pa.	May 1, 1889
EWING, WILLIAM B.	Asst. Eng. Chicago & North Western Ry., 4136 Ellis ave., Chicago, Ill.	April 3, 1889
FARGUSSON, MARK	257 Jefferson ave., Brooklyn, N. Y.	Dec. 5, 1888
FARLEY, GEORGE M.	Eng. Maintenance Way, New York & New England R. R., Boston, Mass.	April 6, 1887
FARLEY, JOHN M.	Fort Plain, N. Y.	Dec. 5, 1888
FERGUSON, WILLIAM L.	1632 N. 15th st., Philadelphia, Pa.	May 1, 1889
FERRER, CARLOS F.	39 Broad st., New York City.	Sept. 2, 1885
FIELD, WILLIAM P.	Civil Eng., 976 Broad st., Newark, N. J., European address: Care Brown, Shipley & Co., London.	Dec. 7, 1887
FISHER, ELSTNER	Asst. Eng. Michigan Central R. R., Detroit, Mich.	April 3, 1889
FRENCH, JAMES B.	626 North 40th st., Philadelphia, Pa.	Feb. 6, 1889
FUERTES, JAMES H.	520 River st., Wichita, Kans.	May 2, 1888
FULLER, WILLIAM B.	City Eng., City Hall, Duluth, Minn.	June 3, 1885
GAHAGAN, WALTER H.	Asst. Eng. St. Louis Merchants Bridge Co., 64 Laclede Bldg., St. Louis, Mo.	Sept. 5, 1888
GAY, MARTIN	Asst. Eng. Dept. Public Works, City of New York, West New Brighton, Richmond Co., N. Y.	June 4, 1884
GOLDSMITH, NATHANIEL O.	The Weir Frog Co., Cincinnati, Ohio.	June 2, 1886
GOSLING, EDGAR B.	(Care E. Coignet.) 98 rue Demours, Paris, France.	May 4, 1887
GRAY, WILLIAM	Tarrytown, N. Y.	May 2, 1888
GRIFFITH, JOHN E.	Res. Eng. Canadian Pacific Ry., Donald, B. C.	April 3, 1889

Name.	Address.	Date of Membership.
HAINES, CASPAR W.	Cheltenham, Pa.	Feb. 2, 1876
HALE, RICHARD A.	Essex Company, Lawrence, Mass.	Feb. 6, 1884
HASBROUCK, CHARLES A.	Asst. Eng. Chicago Forge and Bolt Co., Chicago, Ill.	March 7, 1887
HAWKS, ARCHIE McL.	(Land and Hawks, Hydr. Engrs.) 23 Essex Bldg., Denver, Colo.	Nov. 2, 1887
HAYNES, GIDEON F.	10 Tremont st., Boston, Mass.	April 6, 1887
HILDRETH, RUSSELL W.	(Hildreth and Nettleton.) 10 Cedar st., New York City.	Jan. 4, 1888
HODGE, HENRY W.	The Phoenix Bridge Co., Phoenixville, Pa.	Jan. 5, 1887
HOLBROOK, FRANCIS N.	Supt. Corralitos Mining Co., Corralitos, Mexico.	March 2, 1881
HOPPER, JOHN J.	163 West One Hundred and Twenty-second st., New York City.	May 5, 1886
HORTON, SANDFORD	(Care Y. N. & S. W. Ry.) Yankton, South Dak.	Feb. 7, 1877
HOWE, HORACE J.	(Care New York, Lake Erie & Western R. R.) Susquehanna, Pa.	May 2, 1888
ILLSLEY, WILLIAM A.	Tahlequah, Indian Territory.	Feb. 3, 1875
JOHNSON, SINCLAIR J.	Ch. Inspecting Eng. Kings Co. Elevated R. R., Phoenixville, Pa.	Jan. 7, 1885
JUST, GEORGE A.	Eng. Jackson Iron Works, 315 East 28th st., New York City.	Sept. 3, 1884
KASTL, ALEXANDER E.	Asst. Eng. The Brazos River Dock and Channel Co., Velasco, Brazoria Co., Texas.	Jan. 4, 1888
KELLOGG, NORMAN B.	Div. Roadmaster Southern Pacific Co., West Oakland, Cal.	Feb. 6, 1878
KELSEY, CLIFFORD S.	82 Army Bldg., New York City.	April 3, 1889
KIMBALL, GEORGE A.	Civil Eng., 194 Washington st., Boston, Mass.	May 12, 1875
KOBAYASHI, KAYAJIRO	San. Eng. to Sanitary Bureau, Home Dept., Tokio, Japan.	Feb. 1, 1888
KONDO, TORAGORO	(Care Engineering College, Imperial University.) Tokio, Japan.	Oct. 3, 1888
LANT, FRANK P.	243 West 133d st., New York City.	Oct. 3, 1888
LAWLOR, FRANK D. H.	Eng. Iowa Lines, Chicago Burlington & Quincy R. R., Burlington, Iowa.	Oct. 6, 1886
LELAND, GEORGE H.	74 Westminster st., Providence, R. I.	May 2, 1887
LYDON, WILLIAM A.	Asst. Eng. Chicago Lake Tunnel, foot Peck Court, Chicago, Ill.	Jan. 4, 1888

Name.	Address.	Date of Membership.	
MACKENZIE, WILLIAM B.	Asst. Eng. Intercolonial Ry., Moncton, New Brunswick, Canada.	June	7, 1882
MAGOVERN, EDWARD E.	Cons. Eng., 22 Cortlandt st., New York City.	Jan.	2, 1884
MARVIN, CHARLES E.	Roadmaster Georgia Central R. R., Savannah, Ga.	July	1, 1885
MATLACK, CHARLES P.	(Care A. L. Bowers. Supt. Bridges & Bldgs. M. P. Ry.) Palestine, Texas.	Oct.	7, 1885
McCORMICK, GEORGE K.	Asst. Eng. Charleston, Cincinnati & Chicago Ry., Johnson City, Tenn.	Feb.	6, 1889
McCULLOH, WALTER	Asst. Eng. Sodom Dam, Brewster, N. Y.	July	4, 1888
MILLARD, CURTISS	(Care D. R. Paige & Co.) Brewster, N. Y.	April	3, 1889
MILLS, CHARLES M.	Asst. Eng. The Phoenix Bridge Co., Phoenixville, Pa.	June	2, 1886
MITCHELL, EDWIN	Hagerstown, Md.	Sept.	7, 1887
MODJESKI, RALPH	(Care Geo. S. Morison.) 205 La Salle st., Chicago, Ill.	Dec.	1, 1886
MOSSCROP, ALFRED M.	Asst. Eng. Rochester Bridge & Iron Works, Rochester, N. Y.	May	4, 1887
MOULTHROP, GEORGE E.	(Ray & Moulthrop.) Butte, Mont.	Feb.	1, 1888
MYERS, EDMUND T. D., JR.	Asst. to Pres. Richmond Locomotive & Machine Works, Richmond, Va.	May	2, 1888
NORRIS, ROBERT VAN A.	Asst. Eng. Penn. R. R. Anthracite Coal Cos., P. O. Box 726, Wilkes-Barre, Pa.	Dec.	7, 1887
NOYES, ELLIS B.	Asst. Eng. in chg., Fort Edward, N. Y.	July	7, 1880
OSTRANDER, JOHN E.	(Care Div. Eng. N. Y. State Canals.) Albany, N. Y.	May	2, 1888
PENNEY, WILLIAM W.	First Asst. Eng. in chg. Distribution System, St. Louis Water Works, St. Louis, Mo.	April	4, 1888
PIERSON, STEPHEN C.	Civil Eng., Meriden, Conn.	Nov.	4, 1874
POLLEDO, YSIDORO	Eng. in chg. Main. of Way and Structures, Cardenas & Jucaro R. R., Cardenas, Cuba.	Jan.	2, 1889
PORTER, ALBERT H.	Transitman, New Croton Aqueduct, Brewster, N. Y.	July	4, 1888
POTTER, ALEXANDER	Lehigh University, South Bethlehem, Pa.	Jan.	4, 1888

Name.	Address.	Date of Membership.
POWERS, JOSEPH A.	Lansingburgh, N. Y.	April 2, 1884
PRATT, MASON D.	(Tschirgi and Pratt, Civil & San. Engrs.) Dubuque, Iowa.	Sept. 5, 1888
PURDY, CORYDON T.	(Danforth, Wade & Purdy, Civil & Mech. Engrs.) 165 Washington st., Room 9, Chicago, Ill.	Feb. 2, 1887
RAASLOFF, HAROLD E. DE REUSCHEL, WILLIAM	(Care Frazar & Co.) Yokohama, Japan. Eng. Cleveland, Columbus, Cincinnati & Indianapolis, and Indianapolis & St. Louis Rys., Cleveland, Ohio.	Dec. 3, 1884 June 2, 1880
RICKER, GEORGE A.	Room 82, White Bldg., Buffalo, N. Y.	April 7, 1886
RIDGWAY, ROBERT	Asst. Eng. Aqueduct Commission, Box 495, Sing Sing, N. Y.	Feb. 1, 1888
ROHNERT, BENNO	U. S. Engrs. Office, Sault Ste. Marie, Mich.	April 3, 1889
ROSENWEIG, ALFRED	Ch. Eng. "La Mexicana" L. & M. Co., Dept. Lower California, Mulegé, Baja California, Mexico.	June 7, 1882
ROWLAND, CHARLES B.	Continental Iron Works, Greenpoint, N. Y.	May 2, 1888
SANFORD, DAVID C.	Saugatuck, Conn.	May 6, 1885
SHALER, IRA A.	East View, Westchester Co., N. Y.	July 4, 1888
SHEPARD, WILLIAM T.	Eng. and Contractor, Box 253, New Haven, Conn.	April 7, 1886
SIKES, GEORGE R.	Civil Eng. 539 Plymouth ave., Buffalo, N. Y.	Sept. 7, 1887
SMITH, EUGENE R.	Civil Eng., Islip, Suffolk Co., N. Y.	May 2, 1888
SMITH, MAXWELL	(Care Keep Mfg. Co.) 809 Broadway, New York City.	Sept. 2, 1885
STAIR, WILLIAM H.	Civil Eng. Q. M. Dept. U. S. A., Fort Riley, Kansas.	May 2, 1888
STARR, CHANDLER D.	134 Second ave., New York City.	June 4, 1884
STARR, WILLIAM H.	Supt. Delaware Div. New York, Lake Erie & Western R. R., Port Jervis, N. Y.	April 2, 1884
STEWART, HUNTER	Dep. City Surveyor, 25 Carondelet st., New Orleans, La.	June 1, 1881
TACHARD, ANDRE P.	13 Rue Tronchet, Paris, France.	June 6, 1888
TAPPAN, ROGER	(Care Am. Soc. C. E.) 127 East Twenty-third st., New York City.	Dec. 3, 1884
TENNEY, GEORGE O.	Box 2, Decatur, Ala.	Sept. 7, 1887
THOMSON, THOS. KENNARD	Penocoyd Iron Works, Penocoyd, Pa.	Oct. 3, 1888

Name.	Address.	Date of Membership.
TIBBALS, GEORGE A.	148 Milton st., Brooklyn, N. Y.	May 2, 1888
TIBBALS, SAMUEL G.	148 Milton st., Brooklyn, N. Y.	May 2, 1888
TITUS, WALTON O.	First Asst. Eng. Mexican International Ry., P. O. Box 109, Eagle Pass, Texas.	April 7, 1886
TRATMAN, E. E. RUSSELL	144 Remsen st., Brooklyn, N. Y.	April 7, 1886
TRIBUS, LOUIS L.	Asst. in School Civil Eng. University of the City of New York (Address: 84 Warren st.) New York City.	April 4, 1888
TROTTER, ALFRED W.	112 East 127th st., New York City.	Sept. 5, 1883
TUTHILL, JOB	Ch. Asst. Eng. Letroit, Lansing & Northern R. R., Ionia, Mich.	June 6, 1888
TUTTLE, ARTHUR S.	Asst. Eng. Dept. City Works, Municipal Bldg., Brooklyn, N. Y.	March 2, 1887
VAN ZILE, HARRY L.	55 North Pearl st., Albany, N. Y.	Jan. 6, 1886
VAUGHAN, GEORGE W.	Asst. Eng. New York, Chicago & St. Louis Ry., Broadway Depot, Cleveland, Ohio.	March 3, 1886
VAUX, DOWNING	Bible House, New York City.	Nov. 2, 1887
VILLALON, JOSÉ R.	South Bethlehem, Pa.	July 4, 1888
WADA, YOSHICHIKA	(Care Japanese Consulate.) 7 Warren st., New York City.	Sept. 7, 1887
WADDELL, MONTGOMERY	(Care Edison Machine Works.) Schenectady, N. Y.	Sept. 1, 1886
WARNER, CHARLES S.	132 Broadway, New York City.	Jan. 2, 1889
WEBSTER, ALBERT L.	Sanitary Eng., 107 Drexel Bldg., Wall and Broad sts., New York City.	Sept. 6, 1882
WHEATLEY, JOSEPH Y.	Asst. Eng. New York Central & Hudson River R. R., Grand Central Station, Room 21, New York City.	June 1, 1887
WHEELER, HARRY R.	Eng. in chg. Tunnel etc., N. Y., Ont. & W. Ry., Walton, N. Y.	April 4, 1888
WHITTEMORE, WALTER F.	308 Garden st., Hoboken, N. J.	March 6, 1889
WILLIAMS, WILLIAM P.	Victoria Hotel, New York City.	May 4, 1887
WILLSON, FREDERICK N.	Prof. of Descriptive Geometry, Stereotomy and Technical Drawing in the John C. Green School of Science, Princeton, N. J.	Sept. 5, 1883
WILSON, HERBERT M.	(Care U. S. Geological Survey.) Washington, D. C.	Sept. 5, 1883
WOOD, CHARLES F.	Asst., City Eng. Dept., 18 City Hall, New Haven, Conn.	Dec. 5, 1888

JUNIORS.

Name.	Address.	Date of Membership.
YATES, PRESTON K.	Eng. Natchez Water and Sewer Co., Natchez, Miss.	June 6, 1883
YOUNG, HERBERT A.	(Care E. R. Comfort.) Div. Supt. Mexican Central Ry., El Paso, Texas.	May 7, 1884
YORK, HERBERT W.	Cons. Eng., 22 Cortlandt st., New York City.	May 2, 1888
ZABRISKIE, AARON J.	104 Sherman ave., Newark, N. J.	July 1, 1885

JUNIORS, 158.

FELLOWS.

[F. Am. Soc. C. E.]

Name.	Address.	Date of Membership.
AINSLIE, JAMES W.	Louisville, Ky.	May 28, 1872
ALBRIGHT, JOHN J.	Buffalo, N. Y.	April 20, 1886
BARBER, AMZI L.	Pres. Barber Asphalt Paving Co., 1 Broadway, New York City.	Mar. 19, 1886
BATTERSON, J. G.	Pres. Travelers' Insurance Co., Hart- ford, Conn.	June 7, 1876
BELKNAP, WILLIAM R.	115 West Main st., Louisville, Ky.	May 28, 1872
BLATCHFORD, E. W.	375 La Salle ave., Chicago, Ill.	Feb. 6, 1873
BOUTON, NATHANIEL S.	Pres. Union Foundry Works, Chicago, Ill.	Dec. 30, 1872
BRIDGFORD, JOHN	Albany, N. Y.	Jan. 14, 1871
CHANUTE, OCTAVE*	Cons. Eng., 5 Ritchie pl., Chicago, Ill.	July 11, 1872
CHENEY, NATHANIEL	201 Broadway, New York City.	June 21, 1870
CLARK, EDWARD W.	139 South Fourth st., Philadelphia, Pa.	April 8, 1870
CLARKE, THOMAS C.*	1 Broadway, New York City.	May 20, 1872
COCHRAN, A. P.	Louisville, Ky.	June 19, 1872
COIT, EDWARD W.	402 Walnut st., Philadelphia, Pa.	Sept. 20, 1872
COLBY, CHARLES L.	Pres. Chicago & Great Western R. R., 36 Wall st., New York City.	July 31, 1883
COLEMAN, T. C.	Louisville, Ky.,	May 28, 1872
CONRO, ALBERT	Milwaukee, Wis.	June 13, 1883
COOPER, EDWARD	17 Burling Slip, New York City.	Dec. 10, 1885

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DARWIN, HARRY G.	Asst. Eng. The Safety Car Heating and Lighting Co., 160 Broadway, New York City.	Mar. 22, 1877
DE GARAY, FRANCISCO	Prof. School of Engineers, 1a Calle de la Independencia, No.11, Mexico, Mexico,	Aug. 31, 1883
DILLON, SIDNEY,	Pres. Oregon & Transcontinental Co., 42 Wall st., New York City.	Mar. 26, 1870
DIVEN, ALEXANDEK S.	Elmira, N. Y.	June 16, 1870
DU PONT, BIDERMAN	Louisville, Ky.,	Sept. 5, 1873
FARREN, B. N.	1731 Spring Garden st., Philadelphia, Pa.	Mar. 12, 1870
FINK, ALBERT*	(<i>Past President.</i>) Comr. of Trunk Lines, 346 Broadway, New York City.	Sept. 3, 1872
FLINT, CHARLES R.	Flint & Co., 142 Pearl st., (Residence 4 East Thirty-sixth st.), New York City	June 7, 1876
FRANCIS, JAMES B*	(<i>Past President.</i>) Cons. Eng. Proprs. of Locks and Canals on Merrimack River, Lowell, Mass.	May 4, 1870
GILMAN, CHARLES C.	Pres. The International Terra Cotta Lumber Co., 115 Deaborn st., Chicago, Ill.	May 11, 1871
GREEN, SAMUEL M.	81 New Insurance Bldg., Milwaukee, Wis.	Sept. 5, 1888
GURNEE, WALTER S.	7 Nassau st., New York City.	May 10, 1870
HARRISON, STEPHEN A.	81 New Insurance Bldg., Milwaukee, Wis.	Jan. 30, 1873
HILL, JAMES J.	Pres. St. Paul, Minneapolis & Manitoba Ry., St. Paul, Minn.	Jan. 10, 1889
HOLMAN, STEPHEN	Treas. Holyoke Machine Co., Worcester. Mass.	July 11, 1872
HOWLAND, GEORGE, JR.	New Bedford, Mass.	June 6, 1870
HUNTINGTON, COLLIS P.	Vice-Pres. Central Pacific R. R., 23 Broad st., New York City.	Mar. 10, 1877
JONES, BENJAMIN F.	Pittsburgh, Pa.	June 15, 1870
JOY, JAMES F.	Detroit, Mich.	Nov. 6, 1872
LAWLER, JOHN	Prairie du Chien, Wis.	April 28, 1883
LONG DENNIS,	Louisville, Ky.	Mar. 28, 1872

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LYON, WILLIAM M.	Pittsburgh, Pa.	Mar. 23, 1870
MERRITT, GEORGE	131 William st., New York City.	May 6, 1870
MEYER, HENRY C.	Editor and Proprietor <i>The Engineer and Building Record</i> , 277 Pearl st., New York City.	Oct. 22, 1885
NORMAN, GEORGE H.*	Newport, R. I.	Mar. 23, 1870
NORTON, FREDERICK O.	92 Broadway, New York City.	June 4, 1879
PROSSER, THOMAS	15 Gold st., New York City.	June 1, 1870
REED, WILLIAM W.	Pres. Erie City Pass. Ry., Erie, Pa.	Dec. 20, 1882
RICHMOND, HENRY A.	Buffalo, N. Y.,	July 7, 1870
RUMSEY, B. C.	Buffalo, N. Y.	May 12, 1870
SCOTT, WILLIAM L.	Erie, Pa.	July 7, 1870
SWIFT, McREE	New Brunswick, N. J.	March 9, 1870
TASKER, STEPHEN P. M.	(Morris, Tasker & Co.) 1622 South Fifth st., Philadelphia, Pa.	Sept. 20, 1872
TAYLOR, WILLIAM J.	Iron Master, Chester, N. J.	May 10, 1870
THAW, WILLIAM	Pittsburgh, Pa.	Aug. 30, 1871
TOUCEY, JOHN M.	Gen. Supt. New York Central & Hudson River R. R., Grand Central Station, (Residence, Garrison, Putnam Co.) New York.	May 17, 1870
WALKER, GEORGE C.	228 Michigan ave., Chicago, Ill.	Feb. 6, 1873
WATSON, JAMES	Paterson, N. J.	Dec. 5, 1872
WELTON, NELSON J.	Civil Engineer, Waterbury, Conn.	Jan. 20, 1873

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NETTLETON, WILLIAM A.	Kansas City, Mo.
NEUCHATEL ASPHALTE Co.	265 Broadway, New York City.
NEWELL, JOHN.	Pres. L. S. & M. S. Ry., Cleveland, Ohio.
NICHOLSON, GEORGE B.	Ch. Eng. C., N. O. & T. P. Ry., 530 Garrard st., Covington, Ky.
NORMAN, GEORGE H.	Newport, R. I.
NORTH, EDWARD P.	(Care Am. Soc. C. E.) 127 East Twenty-third st., New York City.
NORTON, F. O.	92 Broadway, New York City.
PAINE, WILLIAM H.	102 Broadway, New York City.

*Deceased.

PAYNE, HENRY B.	Cleveland, Ohio.
PERKINS, C. E.	Pres., C., B. & Q. R. R., Burlington, Ia.
PHILBRICK, EDWARD S.*	12 West st., Boston, Mass.
PORTER, H. H.	Pres. C. & E. I. R. R.; Pres. C. & I. Coal Ry. Co., 311 Erie st., Chicago, Ill.
POTTER, O. W.	532 Dearborn ave., Chicago, Ill.
PRESCOTT, SCOTT & Co.	P. O. Box 2128, San Francisco, Cal.
REED, EDWARD M.	Vice-Pres. N. Y., N. H. & H. R. R., New Haven, Conn.
ROBERTS, W. MILNOR*	Rio de Janeiro, Brazil.
ROBINSON, A. A.	Topeka, Kansas.
ROBINSON, MONCURE.	Philadelphia, Pa.
ROTCH, WILLIAM.	8 Exchange pl., Boston, Mass.
ROWLAND, THOMAS F.	Continental Iron Works, Greenpoint, N. Y.
SICKELS, THEOPHILUS E.*	New York City.
SMITH, C. VANDERVOORT*	New York City.
SMITH, WM. ALEXANDER.	412 Madison ave., New York City.
SORZANO, JULIO F.	33 Broadway, New York City.
STRANAHAN, J. S. T.	Brooklyn, N. Y.
STOREY, WILLIAM B., JR.	Fourth and Townsend sts., San Francisco, Cal.
SWEET, WILLIAM A.	Syracuse, N. Y.
SWIFT, McREE.	New Brunswick, N. J.
SYKES, M. L.	Vice-Pres., Treas. and Secy. Chicago & North Western Ry., 52 Wall st., New York City.
THAW, WILLIAM.	Pittsburgh, Pa.
TOD, JOHN.	Cleveland, Ohio.
VAN WINKLE, EDGAR B.	117 East Seventieth st., New York City.
WADE, J. H.	Cleveland, Ohio.
WEIR, FREDERIC C.	Burnett House, Cincinnati, Ohio.
WELCH, ASHBEL*	Lambertville, N. J.
WHIPPLE, SQUIRE*	Albany, N. Y.
WHITTEMORE, EUGENE.	222 Bidle st., Milwaukee, Wis.

* Deceased.

NOTE.—All the above subscriptions were devoted to the purchase and management of the House, No. 127 East Twenty-third st., New York City.

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- BISSELL, FRANK E. Ch. Eng. & Act. Supt. D. T. & F. W. R. R., Denver, Colo.
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- BONZANO, ADOLPHUS. Vice-Pres. and Ch. Eng. The Phoenix Bridge Co.,
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- CARD, JOSEPH P. Pres. Chicago Tie Preserving Co., 15th and Clark sts.,
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New York City.
- CLARKE, THOMAS C. 1 Broadway, New York City.
- CISNEROS, FRANCIS J. Baranquilla, U. S. Colombia.
- COHEN, MENDES. 825 N. Charles st., Baltimore, Md.
- COLLINGWOOD, FRANCIS. Elizabeth, N. J.
- COOPER, THEODORE. Civil & Mech. Eng., 35 Broadway, New York City.
- CROES, J. JAMES R. Ch. Eng. S. R. T. Co., 40 Wall st., New York City.
- CROSBY, WILSON. 125 Hammond st., Bangor, Me.
- DARLINGTON, FRANK G. Supt. and Secy. C. & M. V. R. R., Zanesville, Ohio.
- DAVIS, JOSEPH P. Cons. Eng., 18 Cortlandt st., New York City.
- DICKINSON, POMEROY P. Cons. Eng., 7 Nassau st., New York City.
- DORSEY, EDWARD BATES. International Club, Trafalgar sq., London, England.
(Care Union League Club, New York City.)
- DOWNES, STANCLIFF B. Asst. Eng. Dept. Public Parks, 1071 Madison ave.,
New York City.
- DUN, JAMES. Ch. Eng. St. L. & S. F. R. R., St. Louis, Mo.

- ECKERT, EDWARD W. 1 Broadway, Room 286, New York City.
- FANNING, JOHN T. Agent and Ch. Eng. St. Anthony Falls Water Power Co.,
Minneapolis, Minn.
- FLAGG, J. FOSTER (Care Am. Soc. C. E.) 127 East 23d st., New York City.
- FORSYTH, ROBERT Man. Union Steel Co., Chicago, Ill.
- FROST, GEORGE H. Business Man. *Engineering News*, Tribune Bldg.,
New York City.
- GILMAN, CHARLES C. Pres. The International Terra Cotta Lumber Co.,
115 Dearborn st., Chicago, Ill.
- GOULD, E. SHERMAN Cons. Eng. Scranton Gas and Water Co., Scranton, Pa.
- GRAFF, FREDERIC. 1337 Arch st., Philadelphia, Pa.
- GREENE, GEORGE S., JR. Eng.-in-charge Dept. Docks, Pier A, North River,
New York City.
- GRISWOLD, FRANK L. 451² n Calle Reconquista Buenos Ayres,
Argentine Republic.
- GUTHRIE, EDWARD B. Dep. City Eng., City Hall, Buffalo, N. Y.
- HAIGHT, STEPHEN S. City Surveyor and Civil Eng., West Farms,
New York City.
- HAMILTON, WILLIAM G. 105 East 21st st., New York City.
- HAYES, EDMUND Union Bridge Co., Buffalo, N. Y.
- HILL, ALBERT B. City Eng., New Haven, Conn.
- JOHNSON, CHARLES R. Pres. and Gen. Man. The Johnson R. R. Signal Co.,
Rahway, N. J.
- JONES, WASHINGTON Supt. Port Richmond Iron Works, Philadelphia, Pa.
- KIRTLAND, ALFRED P. Supt. West Penn. Div. P. R. R., Blairsville, Pa.
- KNAP, JOSEPH M. 365 West st., New York City.
- LAWLER, JOHN Prairie du Chien, Wis.
- LINDENTHAL, GUSTAV. Lewis Block, Pittsburgh, Pa.
- MEYER, THOMAS C. 13 Waverly pl., New York City.
- MILLER, J. IMBRIE. 3928 Walnut st., Philadelphia, Pa.
- MORSE, HENRY G. Pres. Edge Moor Bridge Works, Edge Moor, Del.
- MYERS, CHARLES H. 2775 Third ave., New York City.
- NETTLETON, GEORGE H. Pres. and Gen. Man. K. C., F. S. & M. R. R., and
K. C., M. & B. R. R., Kansas City, Mo.
- NICHOLSON, GEORGE B. Ch. Eng. C., N. O. & T. P. Ry., 530 Garrard st.,
Covington, Ky.

- ODELL, FREDERICK S. 15th ave., Mt. Vernon, N. Y.
 O'ROURKE, JOHN F. Eng. for Dawson, Symmes & Ussher, Contractors Clignecto
 Marine Transport Ry., Amherst, N. S.
- PAINÉ, ARTHUR B. Ch. Eng. Manhattan Bridge Bldg. Co., Nelson House,
 Poughkeepsie, N. Y.
 PAINE, CHARLES. Vice-Pres. Philadelphia Co., 820 Penn. ave., Pittsburgh, Pa.
 PERDON, CHARLES D. Res. Eng. Cumberland Valley Branch, L. & N. R. R.,
 Pineville, Ky.
- REA, SAMUEL. Asst. to Second Vice-Pres. P. R. R., 233 South Fourth st.,
 Philadelphia, Pa.
 RICHARDS, JOSEPH R. 44 Court st., Boston, Mass.
 ROCKWELL, SAMUEL. Ch. Eng. Eastern Ry., St. Paul, Minn.
 ROSS, JAMES. P. O. Box 788, Sherbrooke, Quebec, Canada.
 ROBERTS, PERCIVAL, JR. 261 South 4th st., Philadelphia, Pa.
 ROBERTS, WILLIAM. Waltham, Mass.
 ROWLAND, THOMAS F. Continental Iron Works, Greenpoint, N. Y.
- SAMPLE, JOHN H. Ch. Eng. L., St. L. & T. Ry., Louisville, Ky.
 SMITH, OBERLIN. Pres. Ferracute Machine Co., Bridgeton, N. J.
 SMITH, T. GULFORD. P. O. Drawer 156, Buffalo, N. Y.
 SORZANO, JULIO F. 33 Broadway, New York City.
 SOSA, PEDRO J. Panama, U. S. Colombia.
 STANTON, ROBERT B. 28 Barclay Bldg., Denver, Colo.
 STAUFFER, DAVID McN. Editor *Engineering News*, Tribune Bldg., Room 105,
 New York City.
 STROBEL, CHARLES L. Cons. Eng. Keystone Bridge Co., 205 La Salle st.,
 Chicago, Ill.
 SYKES, M. L. Vice-Pres., Treas. and Secy. C. & N. W. Ry., 52 Wall st.,
 Chicago, Ill.
- THOMSON, JOHN. 11-13 Temple Court, New York City.
 TIDD, MARSHALL M. 10 Tremont st., Boston Mass.
 TOMKINS, CALVIN. 150 Broadway, New York City.
 TOWLE, STEVENSON. 25 Chambers st., New York City.
- WARDLAW, JAMES R. 25 Chambers st., Room 25, New York City.
 WELLINGTON, ARTHUR M. Editor *Engineering News*, Tribune Bldg., Room 105,
 New York City.
 WHITTEMORE, DON J. Ch. Eng. C., M. & St. P. Ry., Milwaukee, Wis.
 WILEY, WILLIAM H. 15 Astor Place, New York City.
 WORTHEN, WILLIAM E. 63 Bleecker st., New York City.

PAST OFFICERS
OF THE
AMERICAN SOCIETY OF CIVIL ENGINEERS.

PRESIDENTS.

JAMES LAURIE,* November 5, 1852, to November 6, 1867.
JAMES P. KIRKWOOD,* November 6, 1867, to August 5, 1868.
WILLIAM J. McALPINE, August 5, 1868, to November 3, 1869.
ALFRED W. CRAVEN,* November 3, 1869, to November 1, 1871.
HORATIO ALLEN, November 1, 1871, to November 5, 1873.
JULIUS W. ADAMS, November 5, 1873, to November 3, 1875.
GEORGE S. GREENE, November 3, 1875, to November 7, 1877.
E. S. CHESBROUGH,* November 7, 1877, to November 6, 1878.
W. MILNOR ROBERTS,* November 6, 1878, to November 5, 1879.
ALBERT FINK, November 5, 1879, to November 3, 1880.
JAMES B. FRANCIS, November 3, 1880, to January 18, 1882.
ASHBEL WELCH,* January 18, 1882, to September 25, 1882.†
CHARLES PAINE, January 17, 1883, to January 16, 1884.
DON J. WHITTEMORE, January 16, 1884, to January 21, 1885.
FREDERIC GRAFF, January 21, 1885, to January 20, 1886.
HENRY FLAD, January 20, 1886, to January 19, 1887.
WILLIAM E. WORTHEN, January 19, 1887, to January 18, 1888.
THOMAS C. KEEFER, January 18, 1888, to January 16, 1889.
MAX J. BECKER, January 16, 1889.

VICE-PRESIDENTS.

EDWARD GARDINER,* November 5, 1852, to November 2, 1853.
CHARLES W. COPELAND, November 5, 1852, to November 3, 1869.
ALFRED W. CRAVEN,* November 2, 1853, to November 6, 1867.
JULIUS W. ADAMS, November 6, 1867, to November 5, 1873.
JAMES B. FRANCIS, November 3, 1869, to November 2, 1870, and November 6, 1878,
to November 3, 1880.
THOMAS C. CLARKE, November 2, 1870, to November 1, 1871.
JACOB M. CLARK, November 1, 1871, to November 5, 1873.
W. MILNOR ROBERTS,* November 5, 1873, to November 1, 1876.
THEODORE G. ELLIS,* November 5, 1873, to November 7, 1877.
ALEXANDER L. HOLLEY,* November 1, 1876, to November 7, 1877.
ALBERT FINK, November 7, 1877, to November 5, 1879.

* Deceased.

† Mr. Ashbel Welch died September 25, 1882, during his term of office as President.

W. MILNOR ROBERTS, * November 7, 1877, to November 6, 1878.
 OCTAVE CHANUTE, November 5, 1879, to January 18, 1882.
 ASHBEL WELCH, * November 3, 1880, to January 18, 1882.
 WILLIAM H. PAINE, January 18, 1882, to January 21, 1885.
 JAMES B. EADS, * January 18, 1882, to January 17, 1883.
 HENRY FLAD, January 17, 1883, to January 16, 1884.
 JOSEPH P. DAVIS, January 16, 1884, to January 21, 1885.
 GEORGE S. GREENE, JR., January 21, 1885, to January 20, 1886.
 THOMAS J. WHITMAN, January 21, 1885, to January 20, 1886.
 THOMAS C. KEEFER, January 20, 1886, to January 18, 1888.
 THOMAS F. ROWLAND, January 20, 1886, to January 18, 1888.
 J. JAMES R. CROES, January 18, 1888, to January 16, 1889.
 ROBERT MOORE, January 18, 1888, to January 16, 1889.
 ALPHONSE FTELEX, January 16, 1889.
 E. L. CORTHELL, January 16, 1889.

SECRETARIES.

ROBERT B. GORSUCH, November 5, 1852, to November 2, 1853.
 EDWARD GARDINER, * November 2, 1853, to December 1, 1854.
 JAMES O. MORSE, * December 1, 1854, to November 3, 1869.
 THOMAS C. MEYER, November 3, 1869, to January 5, 1870.
 ALFRED P. BOLLER, January 5, 1870, to November 1, 1871.
 GABRIEL LEVERICH, November 1, 1871, to November 7, 1877.
 JOHN BOGART, November 7, 1877.

TREASURERS.

ROBERT B. GORSUCH, November 5, 1852, to November 2, 1853.
 EDWARD GARDINER, * November 2, 1853, to December 1, 1854.
 JAMES O. MORSE, * December 1, 1854, to November 3, 1875.
 JOHN BOGART, November 3, 1875, to November 7, 1877.
 J. JAMES R. CROES, November 7, 1877, to January 18, 1888.
 GEORGE S. GREENE, JR., January 18, 1888.

DIRECTORS.

W. H. MORELL, * year beginning November, 1852.
 W. H. SIDELL, * " " " 1852.
 JULIUS W. ADAMS, years, " " 1852, 1875.
 JAMES P. KIRKWOOD, * " " " 1852, to Nov., 1867.
 ALFRED W. CRAVEN, * " " " 1852, 1867, 1868, 1871 and 1872.
 WILLIAM J. McALPINE, years beginning November, 1853, to Nov., 1867, and Nov.,
 1869.
 WILLIAM H. TALCOTT, * " " " 1853, to Nov., 1868.
 JAMES O. MORSE, * " " " 1853, to Nov., 1867, and Nov.,
 1876.

* Deceased.

J. W. PRATT,*	years beginning November, 1853.
I. C. CHESBROUGH,*	" " " 1854, to Nov., 1867.
JAMES K. FORD,	" " " 1867, 1868.
GEORGE S. GREENE,	" " " 1867, 1868, 1870, 1872, 1874, 1876, 1877, 1878.
JOHN F. WARD,	" " " 1867, 1868, 1869, 1870, 1871.
E. S. CHESBROUGH,*	" " " 1869.
THOMAS PROSSER,*	" " " 1869.
JACOB M. CLARK,	" " " 1869, 1870.
THOMAS F. ROWLAND,	" " " 1870, 1871, 1872.
CHARLES MACDONALD,	" " " 1870, 1873, 1874.
ALFRED P. BOLLER,	" " " 1871.
WILLIAM E. WORTHEN,	" " " 1871.
JOHN BOGART,	" " " 1872, 1873, 1874.
F. COLLINGWOOD,	" " " 1872, 1873, 1874, 1875.
DE VOLSON WOOD,	" " " 1873.
OCTAVE CHANUTE,	" " " 1873, 1874, 1875, Jan., 1885.
A. L. HOLLEY,*	" " " 1875.
Q. A. GILLMORE,*	" " " 1875.
W. MILNOR ROBERTS,*	" " " 1876.
J. JAMES R. CROES,	" " " 1876.
WILLIAM H. PAINE,	" " " 1876, 1877, 1878, 1879, 1880.
M. N. FORNEY,	" " " 1876.
JOSEPH P. DAVIS,	" " " 1877, 1880, Jan., 1882, 1883.
C. SHALER SMITH,*	" " " 1877.
C. VANDERVOORT SMITH,*	" " " 1877, 1878, 1879, 1880.
THOMAS C. CLARKE,	" " " 1878.
THEODORE G. ELLIS,*	" " " 1878.
CHARLES HERMANY,	" " " 1879.
EDGAR B. VAN WINKLE,	" " " 1879.
GOUVERNEUR K. WARREN,*	" " " 1879.
G. BOUSCAREN,	" " " 1880.
D. J. WHITTEMORE,	" " " 1880.
THOMAS C. KEEFER,	" " " January, 1882.
THOMAS L. CASEY,	" " " 1882.
GEORGE S. GREENE, JR.,	" " " 1882, 1883, 1884, 1886.
GEORGE W. DRESSER,*	" " " 1882.
WILLIAM METCALF,	" " " 1883, 1884.
WILLIAM E. MERRILL,	" " " 1883.
WILLIAM G. HAMILTON,	" " " 1883, 1887.
THEODORE COOPER,	" " " 1884, 1885.
FRED. GRAFF,	" " " 1884.
WILLIAM R. HUTTON,	" " " 1884, 1885, 1886.*
WALTER KATTÉ,	" " " 1885, 1889.
F. W. VAUGHAN,*	" " " 1885.
W. HOWARD WHITE,	" " " 1886.

* Deceased.

HENRY G. MORRIS,	years beginning January, 1886.		
CHARLES L. STROBEL,	“ “ “	1886.	
CHARLES C. SCHNEIDER.	“ “ “	1887.	
STEVENSON TOWLE,	“ “ “	1887, 1888.	
JAMES ARCHBALD,	“ “ “	1887.	
ROBERT FORSYTH.	“ “ “	1887.	
MENDES COHEN,	“ “ “	1888.	
JOSEPH M. WILSON,	“ “ “	1888.	
CHARLES B. BRUSH,	“ “ “	1888, 1889.	
ALPHONSE FTELEY,	“ “ “	1888.	
ELIOT C. CLARKE,	“ “ “	1889.	
ROBERT E. McMATH.	“ “ “	1889.	
WILLIAM P. SHINN.	“ “ “	1889.	

American Society of Civil Engineers.

DECEASED MEMBERS.

H. M., Honorary Member. M., Member. F., Fellow. M. F., Member and Fellow
A, Associate. J., Junior.

Name.	Class.	Residence.	Date of Membership.	Date of Death.
ABERT, J. J.	H. M.	Corps Engs. U. S. A.	Mar. 2, 1853.	Jan. 27, 1862
AINSLIE, GEORGE	F.	Louisville, Ky.	May 28, 1872.	Sept. 7, 1878
ALLAIRE, WILLIAM M.	J.	New York City.	Mar. 2, 1881.	Dec. 14, 1884
ALLIS, EDWARD P.	F.	Milwaukee, Wis.	Aug. 4, 1883.	Apr. 1, 1889
ANDERSON, ADNA	M.	Sing Sing, N. Y.	Sept. 2, 1874.	May 15, 1889
ANSLEY, GEORGE D.	M.	Montreal, Canada.	Sept. 4, 1878.	Sept. 22, 1883
ARTHUR, WILLIAM Y.	M. F.	Brooklyn, N. Y.	{ M. Dec. 4, 1867. } { F. Sept. 20, 1870. }	Feb. 15, 1876
ASPINWALL, WILLIAM H.	F.	New York City.	July 9, 1870.	Jan. 18, 1875
AVERY, JOHN	M.	New York City.	Dec. 4, 1867.	Jan. 30, 1884
BAILEY, THOMAS N.	M.	Corps Engs. U. S. A.	Nov. 7, 1883.	Apr. 20, 1886
BAKER, WILLIAM L.	M.	Detroit, Mich.	{ J. Jan. 6, 1875. } { M. Nov. 6, 1878. }	May 28, 1888
BARBOUR, WILLIAM S.	M.	Cambridgeport, Mass.	Apr. 17, 1872.	Feb. 24, 1889
BARNARD, JOHN G.	H. M.	{ Corps Engs., } { U. S. A. }	{ M. Sept. 15, 1869. } { H. M. Ap. 7, 1873. }	May 14, 1882
BARNES, JAMES	M.	Springfield, Mass.	Mar. 13, 1853.	Feb. 12, 1869
BAUMANN, EDWARD	A.	Chicago, Ill.	June 2, 1880.	Jan. 23, 1889
BAYLEY, GEORGE W. R.	M.	New Orleans, La.	July 10, 1872.	Dec. 14, 1876
BELL, JAMES E.	M.	Cincinnati, Ohio.	Mar. 3, 1879.	June 8, 1879
BENTLEY, HENRY A.	M.	Newport, R. I.	Mar. 2, 1881.	May 13, 1889
BERESFORD, FRANK	J.	Cincinnati, Ohio.	Sept. 7, 1887.	Dec. 12, 1887
BLUNDEN, HENRY D.	M.	Athens, Pa.	{ J. Jan. 5, 1876. } { M. Feb. 4, 1880. }	Jan. 7, 1889
BRIGGS, ALBERT D.	F.	Springfield, Mass.	May 17, 1870.	Feb. 20, 1881
BRIGGS, ROBERT	M.	Philadelphia, Pa.	Oct. 19, 1870.	July 24, 1882
BROUGH, REDMOND J.	M.	Toronto, Canada.	Sept. 1, 1880.	July 21, 1883
BROWN, JOHN M.	M.	Auburn, N. Y.	Apr. 1, 1874.	June 16, 1874
BUCKHOUT, ISAAC C.	M.	New York City.	July 10, 1872.	Sept. 27, 1874
BURDEN, HENRY	H. M.	Troy, N. Y.	Mar. 28, 1853.	Jan. 19, 1871
BURR, JAMES D.	M.	Topeka, Kansas.	Apr. 5, 1876.	May 5, 1886

Name.	Class.	Residence.	Date of Membership.	Date of Death.
CAMP, JONATHAN, JR.	M.	Jersey City, N. J.	July 2, 1873.	Apr. 16, 1874
CARTWRIGHT, HENRY	M.	Philadelphia, Pa.	Sept. 6, 1876.	July 30, 1881
CARY, EDGAR S.	M.	Newburgh, N. Y.	Nov. 1, 1882.	Jan. 5, 1883
CASS, GEORGE W.	F.	New York City.	Mar. 30, 1871.	Mar. 21, 1888
CHASE, S. STEWART	F.	Holyoke, Mass.	Dec. 8, 1868.	May 29, 1873
CHESBROUGH, E. S.	M.	Chicago, Ill.	June 17, 1868.	Aug. 18, 1886
CLARK, IRA E.	J.	San Francisco, Cal.	Feb. 6, 1878.	May 23, 1882
COLBURN, WARREN	M.	Toledo, Ohio.	Mar. 18, 1868.	Sept. 16, 1879
COLBURN, ZERAH	M.	London, England.	Jan. 5, 1855.	Apr. 26, 1870
COLMAN, ISAAC D.	M.	New York City.	Feb. 17, 1869.	Apr. 8, 1875
COOKE, ROBERT L.	M.	New York City.	Apr. 17, 1872.	Aug. 11, 1877
CORYELL, MARTIN	M.	Lambertville, N. J.	Dec. 4, 1867.	Nov. 30, 1886
COURTWRIGHT, MILTON	F.	New York City.	June 11, 1870.	Apr. 25, 1883
Craven, Alfred W.	M.	New York City.	Nov. 5, 1852.	Mar. 27, 1879
CUSHING, SAMUEL B.	M.	Providence, R. I.	Sept. 15, 1869.	July 17, 1873
CUSHING, SAMUEL B.	M.	Providence, R. I.	June 1, 1887.	Dec. 3, 1888
DAVIDSON, MATTHIAS O.	M.	New York City.	Apr. 6, 1853.	Sept. 1, 1872
DEARBORN, WILLIAM L.	M.	New York City.	Dec. 4, 1867.	Mar. 15, 1875
DERBISHIRE, STEWART	M.	Ottawa, Canada.	Apr. 2, 1884.	Jan. 7, 1887
DEXTER, GEORGE M.	M.	Boston, Mass.	Nov. 5, 1852.	Nov. 26, 1872
DIRKS, JUSTUS	H. M.	The Hague, Holl'd.	June 2, 1880.	Dec. 26, 1886
DRESSER, GEORGE W.	M.	New York City.	July 5, 1876.	Mar. 27, 1883
DURANT, THOMAS C.	F.	New York City.	Nov. 18, 1870.	Oct. 5, 1885
EADS, JAMES B.	M. F.	New York City.	{ M. Dec. 16, 1868. { F. Mar. 30, 1870.	{ Mar. 8, 1887
EDGE, GEORGE W.	M.	Jersey City, N. J.	Mar. 4, 1874.	Jan. 1, 1880
ELLIOTT, GEORGE H.	M.	Norfolk, Va.	Apr. 4, 1883.	Oct. 7, 1886
ELLIS, NATHANIEL W.	M.	Manchester, N. H.	Feb. 2, 1881.	Jan. 16, 1889
ELLIS, THEODORE G.	M. F.	{ Hartford, { Conn.	{ M. Feb. 17, 1869. { F. Nov. 21, 1872.	{ Jan. 9, 1883
EMACK, CHARLES S.	M.	Culpepper, Va.	July 6, 1870.	July 27, 1877
EMMET, THOMAS A.	M.	Carmel, N. Y.	Nov. 5, 1852.	Jan. 12, 1880
ENONTS, WILLIAM A. G.	J.	Reading, Pa.	Sept. 6, 1876.	Nov. 5, 1887
ENSIGN, ELISHA W.	F.	Buffalo, N. Y.	May 18, 1870.	Oct. 1, 1877
ERICSSON, JOHN	H. M.	New York City.	Oct. 2, 1879.	Mar. 8, 1889
EVANS, WALTON W.	M. F.	{ New Rochelle, { N. Y.	{ M. Dec. 4, 1867. { F. Mar. 15, 1870.	{ Nov. 28, 1886
FALCONNET, EUGENE F.	M.	Nashville, Tenn.	June 3, 1874.	Oct. 14, 1887
FARGO, WILLIAM G.	F.	Buffalo, N. Y.	May 6, 1870.	Aug. 4, 1881
FARNHAM, HENRY	F.	Hartford, Conn.	Nov. 14, 1872.	Oct. 4, 1883
FARQUHAR, FRANCIS U.	M.	Corps. Engs. U. S. A.	July 10, 1872.	July 3, 1883
FELTON, SAMUEL M.	F.	Philadelphia, Pa.	Mar. 23, 1870.	Jan. 24, 1889
FISHER, CHARLES H.	M.	Lansingburg, N. Y.	July 7, 1869.	Jan. 18, 1888

Name.	Class.	Residence.	Date of Membership.	Date of Death.
FLINT, EDWARD A.	M.	Brookline, Mass.	May 18, 1870.	Jan. 23, 1886
FORD, ARTHUR L.	A.	Panama.	Nov. 6, 1872.	May 30, 1880
FORSHEY, CALEB G.	M.	New Orleans, La.	Aug. 7, 1872.	April, * 1882
FRENCH, EDMUND	M.	New York City.	Nov. 6, 1872.	May 30, 1880
FOWLER, CHARLES E.	M.	New Haven, Conn.	May 3, 1876.	Jan. 28, 1883
FROST, BENJAMIN D.	M.	North Adams, Mass.	Feb. 21, 1872.	July 19, 1880
GARDINER, EDWARD	M.	New York City.	Nov. 5, 1852.	*
GARDINER, HENRY A.	M.	Jackson, Mich.	Dec. 1, 1852.	July 26, 1875
GILLIS, JOHN R.	M. F.	New York City.	{ M. June 2, 1869. } { F. Mar. 15, 1870. }	{ July 16, 1870 }
GILLMORE, QUINCY A.	M.	New York City.	Dec. 2, 1868.	Apr. 7, 1888
GORRINGE, H. H.	A.	New York City.	Apr. 6, 1881.	July 6, 1885
GRAIN, WILLIAM	M.	Fergus, Ont., Can.	Sept. 15, 1869.	Jan. 10, 1877
GRASSAU, H.	M.	New Haven, Conn.	July 6, 1853.	May 16, 1880
GREENWOOD, WM. H.	M.	Dummerston, Vt.	Mar. 3, 1850.	Aug. 29, 1880
GRIFFEN, JOHN	M.	Phoenixville, Pa.	Apr. 15, 1868.	Jan. 14, 1884
HADDOCK, ARBA R.	A.	New York City.	May 1, 1831.	Feb. 28, 1885
HALL, G. THOMAS,	M.	New York City.	{ A. Oct. 2, 1872. } { M. Sept. 2, 1874. }	{ June 2, 1881 }
HARBAUGH, SPRINGER	F.	St. Paul, Minn.	May 19, 1871.	Dec. 8, 1887
HARDEE, THOMAS S.	M.	New Orleans, La.	Apr. 4, 1877.	May 20, 1880
HARRIS, HENRIQUE	M.	Brooklyn, N. Y.	Dec. 3, 1879.	Oct. 10, 1882
HASLETT, SULLIVAN	M.	Brooklyn, N. Y.	June 4, 1879.	Jan. 4, 1887
HATFIELD, ROBERT G.	M.	New York City.	Dec. 4, 1867.	Feb. 15, 1879
HAYWARD, JAMES A.	M.	Galveston, Texas.	Sept. 5, 1877.	Aug. 13, 1880
HJORTSBERG, MAX	M.	Chicago, Ill.	July 10, 1872.	May 16, 1880
HOE, RICHARD M.	M.	New York City.	Oct. 1, 1873.	June 8, 1886
HOLLEY, ALEXANDER L.	M.	Brooklyn, N. Y.	Oct. 1, 1873.	Jan. 29, 1882
HOWELL, CHARLES W.	M.	Corps Engs. U. S. A.	Mar. 3, 1875.	Apr. 5, 1882
HUMPHREYS, ANDREW A.	H. M.	Corps Engs. U. S. A.	May 7, 1873.	Dec. 27, 1883
HYDE, WILLIAM B.	M.	Oakland, Cal.	July 12, 1877.	June 1, 1882
JAMES, JOHN C.	M.	Battle Creek, Mich.	Mar. 1, 1876.	Feb. 27, 1883
JERVIS, JOHN B.	H. M.	Rome, N. Y.	{ M. Dec. 4, 1867. } { H. M. Dec. 2, 1868. }	{ Jan. 12, 1885 }
JOHNSON, T. MARR	M.	London, England.	Nov. 16, 1870.	July 31, 1874
JORDAN, GABRIEL	M.	Mobile, Ala.	Sept. 18, 1872.	Nov. 10, 1884
JUDAH, THEODORE D.	M.	Buffalo, N. Y.	May 4, 1853.	*
KINGSLEY, WILLIAM C.	F.	Brooklyn, N. Y.	June 6, 1870.	Feb. 21, 1885
KIRKWOOD, JAMES P.	M.	Brooklyn, N. Y.	Nov. 2, 1852.	Apr. 22, 1877
KLOMAN, ANDREW	F.	Pittsburgh, Pa.	Jan. 27, 1875.	Dec. 19, 1880
KRUPP, FREDERICK	F.	Essen, Prussia.	June 14, 1870.	July 14, 1887

* Precise date of death unknown.

DECEASED MEMBERS.

Name.	Class.	Residence.	Date of Membership.	Date of Death.
LANE, MOSES	M.	Milwaukee, Wis.	Dec. 4, 1867.	Jan. 25, 1882
LATIMER, CHARLES	M.	Cleveland, O.	Apr. 5, 1876.	Mar. 25, 1888
LAURIE, JAMES	M.	Hartford, Conn.	Nov. 5, 1852.	Mar. 15, 1870
LESAGE, LOUIS	M.	Montreal, Canada.	Sept. 7, 1881.	Jan. 9, 1889
LEWIS, J. W. P.	M.	Philadelphia, Pa.	Jan. 5, 1853.	*
MAHAN, DENNIS H.	H. M.	West Point, N. Y.	Mar. 2, 1853.	Sept. 16, 1871
MALEZIEUX, EMIL	H. M.	Paris, France.	Nov. 3, 1880.	May 20, 1885
MARSHALL, CHARLES A.	M.	Johnstown, Pa.	Oct. 1, 1884.	May 31, 1889
MASON, EDDY D.	M. F.	Toledo, Ohio.	{ M. July 10, 1872. } { F. Dec. 28, 1872. }	Dec. 19, 1874
MCALPINE, CHARLES L.	M.	New York City.	Dec. 4, 1867.	Jan. 11, 1884
MERCUR, FREDERICK	M.	Wilkesbarre, Pa.	July 20, 1870.	Jan. 10, 1888
MERZ, FREDERICK W.	M.	Louisville, Ky.	May 28, 1872.	Dec., * 1883
MITCHELL, ALEXANDER	F.	Milwaukee, Wis.	June 13, 1883.	Apr. 19, 1887
MORLEY, WILLIAM R.	M.	Paso del Norte, Mex.	Sept. 6, 1882.	Jan. 12, 1883
MORRELL, WILLIAM H.	M.	New York City.	Nov. 5, 1852.	*
MORRIS, WILLIAM W.	M.	Cincinnati, Ohio.	Jan. 5, 1853.	*
MORSE, JAMES O.	M.	New York City.	Feb. 9, 1853.	Mar. 8, 1883
NEWTON, ISAAC	M.	New York City.	Mar. 3, 1880.	Sept. 25, 1884
NICKERSON, LOUIS H.	M.	Baltimore, Md.	Sept. 18, 1872.	May 6, 1877
OGDEN, WILLIAM B.	F.	New York City.	Mar. 23, 1870.	Aug. 3, 1877
O'SULLIVAN, THOMAS S.	M.	St. Louis, Mo.	Jan. 5, 1853.	Nov. 1, 1855
PHILBRICK, EDWARD S.	M.	Boston, Mass.	Sept. 6, 1874.	Feb. 13, 1889
PHILLIPS, WILLIAM	F.	Pittsburgh, Pa.	Mar. 24, 1870.	Apr. 14, 1874
PHINNEY, HENRY W. B.	M.	West Fall Brook, Cal.	Jan. 7, 1885.	Nov. 22, 1888
POINIER, P. PORTER	J.	Cambridge, Mass.	Mar. 3, 1875.	June 11, 1876
POST, SIMEON S.	M.	Jersey City, N. J.	Nov. 5, 1852.	June 29, 1872
PRATT, T. WILLIS	F.	Boston, Mass.	Nov. 4, 1870.	July 17, 1875
PROSSER, THOMAS	M.	New York City.	Dec. 4, 1867.	Sept. 15, 1870
RANDOLPH, JAMES L.	M.	Baltimore, Md.	Mar. 1, 1882.	Sept. 17, 1888
REEVES, SAMUEL J.	M.	Philadelphia, Pa.	Apr. 5, 1868.	Dec. 15, 1878
RENO, JAMES H.	M.	Pittsburgh, Pa.	Nov. 5, 1879.	Aug. 5, 1881
ROBERTS, W. MILNOR	M.	Rio de Janeiro, B'z'l.	Sept. 21, 1870.	July 14, 1881
ROEBLING, JOHN A.	M.	Trenton, N. J.	Dec. 2, 1868.	July 22, 1869
ROGERS, ALBERT B.	M.	Waterville, Wash.	June 6, 1883.	May 4, 1889
ROGERS, JOHN B.	M.	St. Louis, Mo.	July 2, 1873.	Apr. 1, 1874
SCHOTT, C. RIDGELY	M.	New York City.	Apr. 1, 1874.	July 9, 1878
SCHUYLER, HOWARD	M.	San Francisco, Cal.	June 7, 1882.	Dec. 3, 1883
SCOWDEN, THEODORE R.	M.	Cleveland, Ohio.	May 7, 1873.	Dec. 31, 1881
SEELY, THOMAS J.	M.	Guaymas, Mexico.	Feb. 1, 1882.	Oct. 2, 1883

* Precise date of death unknown.

DECEASED MEMBERS.

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Name.	Class.	Residence.	Date of Membership.	Date of Death.
SEYMOUR, M. T.	F.	New York City.	July 21, 1870.	May 30, 1885
SHELDON, SIMEON	M.	Cleveland, Ohio.	Feb. 5, 1873.	Mar. 4, 1883
SHREVE, SAMUEL H.	M.	New York City.	May 19, 1869.	Nov. 27, 1884
SICKELS, THEOPHILUS E.	M.	New York City.	Feb. 21, 1872.	Feb. 4, 1885
SIDELELL, WILLIAM H.	M.	New York City.	Nov. 5, 1852.	July 1, 1873
SITES, WILMON W. C.	M.	Jersey City, N. J.	Nov. 6, 1878.	Oct. 1, 1885
SMITH, CHARLES A.	M.	Newburyport, Mass.	Apr. 7, 1880.	Feb. 2, 1884
SMITH, CHARLES C.	M.	St. Paul, Minn.	July 10, 1872.	Apr. 17, 1889
SMITH, C. SHALER	M.	St. Louis, Mo.	Mar. 5, 1873.	Dec. 19, 1886
SMITH, C. VANDERVOORT	M.	New York City.	July 5, 1876.	June 30, 1884
SPALDING, IRA	M.	New York City.	July 20, 1870.	Oct. 2, 1875
SPIELMANN, ARTHUR	M.	Hoboken, N. J.	A. Mar. 5, 1873.	Nov. 25, 1883
			M. Sept. 5, 1877.	
STAHLBERG, ALBERT J.	J.	Copenhagen, Den'k.	Mar. 4, 1874.	Aug. 19, 1887
STEWART, DAVID A.	F.	Pittsburgh, Pa.	Nov. 7, 1872.	Dec. 14, 1888
ST. JOHN, ISAAC M.	M.	Richmond, Va.	July 14, 1871.	Apr. 7, 1880
STRATTON, FRANKLIN A.	M.	Philadelphia, Pa.	May 3, 1876.	July 17, 1879
TALCOTT, WILLIAM H.	M.	Jersey City, N. J.	Feb. 2, 1853.	Dec. 8, 1868
TASKER, CHARLES A.	J.	Cincinnati, O.	Nov. 4, 1874.	Oct. 4, 1879
TASKER, THOMAS T., JR.	F.	Philadelphia, Pa.	Jan. 7, 1873.	Aug. 19, 1877
THOMPSON, JOHN C.	M.	New York City.	May 18, 1870.	Jan. 17, 1880
TOTTEN, JOSEPH G.	H. M.	Corps. Engs. U. S. A.	Mar. 2, 1853.	Apr. 22, 1864
TRACY, EDWARD H.	M.	New York City.	Feb. 19, 1868.	Aug. 28, 1875
TRACY, JOHN F.	F.	New York City.	Jan. 20, 1873.	Feb. 13, 1878
TRAFTON, GILMAN	M.	Louisville, Ky.	Jan. 4, 1871.	May 25, 1887
TYSON, HENRY	M.	Baltimore, Md.	July 10, 1872.	Sept. 1, 1877
VAUGHAN, FREDERIC W.	M.	Louisville, Ky.	Feb. 17, 1869.	Oct. 19, 1887
VINTON, FRANCIS L.	M.	Denver, Colo.	Aug. 5, 1868.	Oct. 6, 1879
WALLING, HENRY F.	M.	Boston, Mass.	May 6, 1868.	Apr. 8, 1888
WALTON, LOUIS R.	M.	Earlington, Ky.	Apr. 1, 1885.	Nov. 9, 1885
WEBER, M. M. BARON VON	H. M.	Berlin, Germany.	June 2, 1880.	Apr. 18, 1881
WELCH, ASHBEEL	M.	Lambertville, N. J.	Aug. 7, 1872.	Sept. 25, 1882
WELLS, DANIEL L.	F.	Milwaukee, Wis.	June 13, 1883.	Nov. 24, 1884
WHIPPLE, SQUIRE	H. M.	Albany, N. Y.	May 6, 1868.	Mar. 15, 1888
WIGHTMAN, HENRY M.	M.	Boston, Mass.	Apr. 2, 1873.	Apr. 3, 1885
WILLIAMS, NORMAN A.	M.	Utica, N. Y.	Feb. 17, 1869.	Oct. 12, 1879
WILLIAMS, WILLIAM	F.	Buffalo, N. Y.	June 16, 1870.	Sept. 10, 1876
WILSON, WILLIAM W.	M.	Yonkers, N. Y.	Jan. 5, 1870.	Feb. 7, 1887
WORTHINGTON, HENRY R.	M.	New York City.	Jan. 5, 1876.	Dec. 17, 1880
WRIGHT, J. BUTLER	F.	New York City.	May 24, 1870.	Oct. 31, 1877
WRIGHT, WILLIAM W.	M.	Philadelphia, Pa.	Nov. 4, 1872.	Mar. 9, 1882
YORKE, EDWARD	M.	Sacramento, Cal.	Nov. 1, 1882.	May 28, 1884

GENERAL INFORMATION.

MEETINGS.—Regular meetings are held at the House of the Society at 20 o'clock on the first and third Wednesdays of each month, except July and August. The Annual Meeting for the election of officers and hearing the Annual Reports is held on the third Wednesday in January, beginning at 10 o'clock. A Convention is held annually, at a time and place determined each year by the Society.

The House and Library of the Society are open to Members and visitors introduced by them, from 9 to 17 o'clock each business day except Saturday, when it is closed at 15 o'clock.

The Library and Conversation Rooms are also open each Wednesday evening from 19½ to 22 o'clock, except during Society meetings.

PUBLICATIONS.—The Transactions and Proceedings of the Society are at present issued in twelve numbers each year. They are furnished to all classes of Members and to persons subscribing \$100 or more to the Building Fund of the Society. They will also be sent to any subscriber at the rate of \$10.00 per year; and to clubs of ten or more, when ordered through the Secretary of an Engineering or Technical Society or Club, who will be responsible for the payment, at 25 per cent. discount. They may be had with cut or uncut edges, as desired.

PROFESSIONAL PAPERS.—The Board of Direction invites professional papers and communications on subjects of engineering interest from all persons, whether Members of the Society or not. These papers and communications will be accepted for publication in the Transactions of the Society, subject to the regular rules prescribed by the Society laws in regard to its publications. These rules provide for a proper editorial supervision, and for the exclusion of old matter readily found elsewhere, of matter specially intended to advocate personal interests, of matter carelessly prepared or controverting established facts, and of matter purely speculative or foreign to the purposes of the Society.

Discussion is also invited from all persons interested in the papers presented to the Society, such discussion to be, of course, subject to the same editorial rules.

HOUSE OF THE SOCIETY.—The Society has purchased and now occupies the house No. 127 East Twenty-third Street, New York City. The Building Fund has been created to pay for this property.

CONTRIBUTIONS TO THE BUILDING FUND.—By a resolution of the Board of Direction, all contributions to the Building Fund are to be acknowledged, from time to time, by printing lists of the same in the monthly Proceedings of the Society, and in addition to this the names of all those who may subscribe \$100 or

more are to be regularly enrolled and published in future lists of the Society under the head of Subscribers to the Building Fund, and they will be entitled to receive one copy of the monthly publications, comprising all papers and transactions of the Society, regularly for life, for each \$100 subscribed by them ; such copies to be in addition to those which they may be already entitled to if they are Members or Fellows.

ADDITIONS TO LIBRARY.—It is very desirable that copies of books on engineering subjects, and of reports of municipal, railway, canal, water supply and all other public works, be added to the Library. Members of the Society, and all who feel an interest in the establishment of a library of this character, are asked to secure and send to the Society any such books and reports.

ADMISSION TO MEMBERSHIP.—The active members of the Society are, under the Constitution, divided into three classes, styled respectively, Members, Associates and Juniors. The requisite qualifications for either class will be found in Article XVII of the Constitution, page 7. There are also Fellows of the Society, as provided for by Article XXIV, page 9. The provisions as to Honorary Membership are in Article XXIII, page 9.

The form of application for membership will be found on page 16. Information as to fees, dues, commutation of dues, certificates of membership and badge will be found on page 17.

For blank forms and for information, address the Secretary, at the Society House.

REMITTANCES.—All remittances should be made payable to the order of THE AMERICAN SOCIETY OF CIVIL ENGINEERS. They should be in drafts on New York, or in postal money orders, payable at the New York Post Office (not at a branch office).

List of Members.

ADDITIONS TOO LATE FOR PREVIOUS INSERTION.

MEMBERS.

Name.	Address.	Date of Membership.
BEAHAN, WILLARD	North and South Am. Cons. Co., Calle de la Moneda 38, Santiago, Chili.	April 3, 1889
COURTENAY, WILLIAM H.	Asst. Eng. Southern Div. L. & N. R. R., Montgomery, Ala.	July 3, 1889
DAVIS, ROB. B.	Man. Bridge and Cons. Dept. Pencoyd Iron Works, Pencoyd, Pa.	July 3, 1889
EVANS, LOUIS H.	Div. Eng. Chicago and North Western R. R., Chicago, Ill.	July 3, 1889
GAY, MARTIN	Asst. Eng. Dept. Public Works, New York City, West New Brighton, Richmond Co., N. Y.	{ J. June 4, 1884 M. June 5, 1889
GILLETTE, EDWARD, JR.	123 Columbus ave., New Haven, Conn.	July 3, 1889
HALL, JULIEN A.	First Asst. Eng. Richmond and Dan- ville R. R., Washington, D. C.	June 5, 1889
KING, PAUL S.	Ch. Eng. Buffalo and Geneva R. R., 284 Main st., Buffalo, N. Y.	July 3, 1889
NEARING, FRANK	Ch. Eng. for Brown, Howard & Co., New Croton Aqueduct, Tarrytown, N. Y.	June 5, 1889
NORTHWAY, WILLIAM R.	City Engineer, Chicago, Ill.	July 3, 1889
OWENS, HENRY K.	(Scurry and Owens, Civil Engrs.) Rooms 50 and 51, Yesler Block, Seattle, Wash.	March 6, 1889
PIERSON, GEORGE S.	Kalamazoo, Mich.	June 5, 1889
STARR, ARTHUR B.	Supt. Eastern Div. Pennsylvania R. R., Allegheny, Pa.	June 5, 1889

ASSOCIATES.

Name.	Address.	Date of Membership.
BREUCHAUD, JULES	204 West 121st st., New York City.	June 5, 1889
FUTAMI, KIOSABURO	Keith and Perry Bldg., Kansas City, Mo.	June 5, 1889
HAZEN, JOHN V.	Dartmouth College, Hanover, N. H.	June 5, 1889
HUNSIKER, MILLARD	Carbon Iron Co., Pittsburgh, Pa.	June 5, 1889
LIVINGSTON, JULIUS I.	Man. Standard Paint Co., Bound Brook, N. J.	July 3, 1889
MILLER, T. SPENCER	96 Liberty st., New York City.	July 3, 1889

JUNIORS.

Name.	Address.	Date of Membership.
CUSHING, WILLIAM C.	Eng. Main. Way, Cincinnati and Muskingum Valley Ry., Zanesville, Ohio.	June 5, 1889
LAWLOR, THOMAS F.	Res. Eng. East and West Approach Poughkeepsie Bridge, Poughkeepsie, N. Y.	June 5, 1889
SMITH, MERRITT H., JR.	Asst. Eng. Croton Aqueduct, P. O. Box 767, Yonkers, N. Y.	June 5, 1889
WOLFEL, LUDWIG P.	Pencoyd Bridge and Cons. Co., Pencoyd, Pa.	July 3, 1889

DECEASED MEMBER.

Name.	Class.	Residence.	Date of Membership.	Date of Death.
LYON, WILLIAM M.	F.	Pittsburgh, Pa.	Mar. 23, 1870.	July 3, 1889



